CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, April 28, 1910.

CONTENTS.

CONSTRUCTION NEWS:
Railways 169
Electric Railways 169
Light and Power Plants 170
Bridges 170
Buildings 170
Water Supply and Irrigation 172
Sewerage 172
Garbage Disposal 173
Streets and Roads 173
Manufacturing Plants 174
Miscellaneous Contracts 175
Plans and Specifications on File 175
List of Contracts Pending 175
TRADE PUBLICATIONS 176
PROPOSALS 176

(List of Contracts Pending, and the list of Plans and Specifications on file at the office of Engineering News, will be found on the last page of this Supplement.)

RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ALGOMA CENTRAL & HUDSON BAY.—A special meeting of the stockholders of the Lake Superior Corporation will be held in Camden, N. J., on May 6, to vote on a proposition to issue securities of the Algoma Central & Hudson Bay Ry. Co., a subsidiary of the Lake Superior Corporation, to the amount of about $3,500,000, to finance the completion of the railroad to a connection with the main line of the Canadian Pacific, thereby conserving to the Algoma Central Co. valuable land grants. It is planned to complete the Algoma Central Ry. from Sault Ste. Marie, Ont., to Josephine Junction and thence to Hobon, where it will connect with the Canadian Pacific Ry. The greater part of the line along the extension proposed has already been graded. The company has land grants along the proposed route to the extent of about 1,600,000 acres contingent upon the completion of the road. Bids are asked until April 30 for building a 31-mile extension from Hawk Lake Junction to Hobon, as fully noted on April 14.

AMERICAN CENTRAL.—We are officially advised that Geo. W. Angle, Ch. Engr., Vernon, Tex., will have charge of construction work. The CENTRAL CONSTRUCTION CO., Mobeetie, Tex., has the general contract. The first section will be built from Miami, Tex., to Vernon, 160 miles. Surveys are two-thirds completed. Right-of-way is secured. Noted on March 24.

ARKANSAS, LOUISIANA & GULF.—J. M. Parker, Hamburg, Ark., Gen. Mgr. of the Arkansas, Louisiana & Gulf Ry. Co., states that the extension of that road from Hamburg, Ark., northward to Mena, Ark., will begin within 60 days and be completed this year. The road will run via Pine Bluff, which city subscribed a bonus of $100,000 in order to secure the line. It will connect at Mena, Ark., with the Rock Island System. The Arkansas, Louisiana & Gulf Ry. now runs from Monroe, La., northward to Hamburg, Ark., 56 miles, with a 5-mile branch from Rolfe Junction to Crossett. T. G. Cooke is Engr., Hamburg. Noted on Nov. 18, '09.

ASHERTON & GULF.—This railway is to be extended from Asherton to Eagle Pass, about 75 miles. Marshall Hicks, of San Antonio, Tex., attorney for this company, has charge of the preliminary arrangements. Asher Richardson is Pres. and Gen. Mgr., Asherton, Tex.

ATCHISON, TOPEKA & SANTA FE.—The A. M. MOORE CONSTRUCTION CO., of Kansas City, Mo., has the contract for constructing the branch line of the Santa Fe between San Angelo and Sterling City, Tex., 47 miles. The grade will soon be finished.

E. P. Ripley, Pres., of the Atchison, Topeka & Santa Fe Railway Co., has announced in Chicago that the company plans to spend $31,000,000 during the current year, according to press reports. Of this sum, he said, $12,000,000 would be used to complete work under way and the remainder for new projects, including $1,500,000 for new equipment and power, $2,000,000 for a new bridge over the Missouri River at Kansas City, $4,000,000 for 125 miles of double track west of Albuquerque, N. Mex., $1,300,000 for new buildings for the mechanical department and for machinery, and $2,000,000 for grade revision work between Galveston and Coleman, Tex. The sum of $500,000 will also be spent to complete the installation of telephones for train dispatching on the main line.

ATLANTIC NORTHERN.—See Cheat River & Monongahela Valley R. R.

BALTIMORE & OHIO.—The Board of Directors of the Baltimore & Ohio Chicago Terminal R. R. Co. has authorized an issue of $50,000,000 of bonds. Bonds to the amount of $33,000,000 will be issued soon, chiefly to reimburse the Baltimore & Ohio R. R. Co. for money advanced in purchasing the old Chicago Terminal Transfer Co.; $28,000,000 will be required for this purpose, and $5,000,000 will be set aside for improvements on the terminal property, including elevating the tracks, extensions, etc. The remainder will be held in the treasury of the Baltimore & Ohio Chicago Terminal Co. for future needs.

BARTLETT-FLORENCE RY.—Company is about ready to proceed to build the line through to Lampasas, Tex.; also to a point near Houston, crossing the San Antonio & Aransas Pass, International & Great Northern and Houston & Texas Central lines on an air line to Brenham. Geo. D. Fairtrace is Ch. Engr., Bartlett, Tex.

BESSEMER & LAKE ERIE.—This company, according to press reports, contemplates spending about $1,750,000 this summer on its line between Conneaut Harbor and the steel mills in the Pittsburg district. Improvements in the general shops of the company at Greenville, Pa., costing $500,000, are well under way.

CANADIAN NORTHERN.—We are officially advised that contract was awarded on April 15 to WM. OZMUN, Kinistino, Sask., for building an extension, three-quarters of a mile long, from Prince Albert to the Regina-Prince Albert (Sask.) branch to the yards of the Celtic Brick Co., Ltd. Grading is now under way. D. Ross is Secy. of the Celtic Brick Co., Prince Albert. Noted on March 31.

CLEVELAND CINCINNATI, CHICAGO & ST. LOUIS.—Bids are asked by Wm. Garstang, Supt. Motive Power, at Indianapolis, Ind., until April 30, for improvements to be made at Beach Grove, Ind., at a cost of about $1,000,000, it is stated. The plans provide for a complete water-works system, including sewers, water and fire line, conduits for heat and power, and a reservoir and other facilities. The contracts for the work are to be let as soon as bids are received and considered. Noted on March 3.

COOS BAY, OREGON & IDAHO.—Grading contracts will be let about July 1. The first 100 miles of this line have been located from Marshfield, Ore., on Coos Bay, east to Roseburg. The line is eventually to be extended east to Boise, Idaho. Part of the work will be heavy rock work, with several short tunnels. On the first section of 100 miles the line will pass through heavy timber lands and coal fields. H. Clarke is Pres.; F. A. Haines is Ch. Engr., Marshfield. Noted on Dec. 9, '09.

ELGIN, JOLIET & EASTERN.—Over $500,000 will be spent by this company in improvements, which will include double tracking from Joliet to South Chicago. A. F. Banks, Pres., Chicago, states that 500 new steel dump cars for coal and ore and 68 locomotives have been ordered. The company will spend $80,000 at Waukegan in improvements, including a roundhouse. The Joliet yards will be enlarged and additional car shops, coal chutes and a modern concrete roundhouse will be erected there. A. Montzheimer is Ch. Engr., Joliet, Ill.

LEHIGH VALLEY R. R.—Stockholders will vote on June 22 on a proposition to increase the capital stock of the company from $40,334,800 to $80,000,000. This is preliminary to the issue of $20,167,400 of new stock. With the proceeds of the new stock the company will pay off $6,000,000 of bonds, reducing its fixed charges by $420,000 per annum. The company will also pay maturing equipment trust bonds and apply the balance of the new capital in paying for new construction to enable the company to render adequate transportation service to the territory served by its lines. Construction work now in hand will require fully $4,000,000. A cut-off will be built from Lumberyard, Pa., in the Hazleton region, to the main line below Penn Haven Junction, and increased terminal facilities will be provided at Buffalo. It is stated that the company will build a classification yard at Hazel Creek Junction, a short distance from Weatherly, Pa. This work has been contemplated for many years, but only took definite and practical shape recently, when surveyors began the preliminary work of outlining the plan of the yard. All the right-of-way has been secured. E. B. Ashby is Ch. Engr., 143 Liberty St., New York.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—An extension is planned from Ryder, N. Dak., to Elbowoods, N. Dak. Thos. Green is Ch. Engr., Minneapolis, Minn.

MISSOURI, KANSAS & TEXAS.—The directors of this company are reported to have decided on $5,000,000 as the amount to be spent during 1910 for improvements and additions, $4,000,000 for rolling stock and $1,000,000 to be applied to the cost of the double tracking of the Oklahoma division and to the enlargement of terminal facilities. The double tracking under way is on the division between the Red River and McAlester, Okla. The distance is 50 miles, and 45 miles have already been completed. Noted on April 14.

OKMULGEE & COALTON.—Incorporated in Oklahoma, with $50,000 capital. The company plans to build from Okmulgee to Coalton, about eight miles. The estimated cost of the line is $150,000. The Directors include W. J. Cook, Muskogee; C. S. Dawley, N. D. Boyd, T. J. Baker, Walter W. Martin, E. F. Gill, A. F. Seidler, Leo O. Voorhis, G. W. Mecklin, A. D. Kennedy, John A. Belford and R. D. Carpenter, all of Okmulgee, Okla.

PAYETTE VALLEY R. R.—Contract has been awarded to the WESTERN ENGINEERING CO., Emmett, Idaho, it is stated, for building a 20-mile extension to this railroad.

QUANAH, ACME & PACIFIC.—Plans have been prepared for building an extension from Paducah, Tex., to El Paso, Tex., 425 miles. The line is now in operation between Quanah and Paducah, Tex., 43 miles. Sam Lazarus is Pres., New National Bank of Commerce Bldg., St. Louis, Mo.; Chas. E. Ensminger is Gen. Mgr., Quanah, Tex.

QUANAH, SEYMOUR, DUBLIN & ROCKPORT.—Incorporated in Texas, with $500,000 capital, and headquarters at Austin, Tex. The railway will commence at or near the northwestern corner of Hardeman County, on the south bank of the Red River, and proceed thence through Hardeman, Foard, Wilbarger, Baylor, Throckmorton, Young, Stephens, Palo Pinto, Eastland, Erath, Comanche, Hamilton, Coryell, Bell, Williamson, Travis, Bastrop, Caldwell, Gonzales, Lavaca, De Witt, Victoria, Goliad, Refugio and Aransas Counties and through the cities of Quanah, Seymour, Dublin and Austin, terminating in Rockport. It will be about 500 miles long. The incorporators include L. E. Walker, of Marshall; W. R. Davie, H. E. Ford and A. J. Eilers, of Austin; H. Koch, of Quanah; G. S. Plants, of Seymour; C. G. Johnson, of Rockport, and M. C. Witchur, of Dallas.

UNION PACIFIC.—J. C. Stubbs, Vice-Pres. and Traffic Director of the Harriman lines, according to press reports, has announced the following double-tracking on the Union Pacific R. R.: "Work on second tracking has been finished from Omaha to Watson's Ranch, about 201 miles; about 25 miles more has been completed between Kearney and North Platte, and we are going right along to complete the work from North Platte to Julesberg, about 80 miles, and to fill in the gaps between Watson's Ranch and North Platte, about 75 miles. In addition, 20 miles from Cheyenne to Buford is completed; 40 miles between Lookout and Hanna, Wyo.; 60 miles between Rawlins and Wamsutter; 26 miles between Point of Rocks and Blairtown, and 30 miles between Green River and Granger."

ELECTRIC RAILWAYS.

PORTLAND, ME.—Construction work has been commenced by the Portland, Gray & Lewiston R. R. Co. When completed this road will extend from the head of Lisbon St., Lewiston, to Monument Square, in Portland. For about two miles after leaving Lewiston the cars will run over roadbed already completed, a part of the Lewiston, Augusta & Waterville property. There will be about 30 miles of new road to construct. The line will go through a part of Auburn, the Upper and Lower Corners in Gloucester, to Cumberland, North Gray, Gray Village, West Falmouth, and Deering, into Portland. Estimated cost, $800,000. This railroad is being built by Hon. W. Scott Libby and Harry M. Dingley, of Portland. The road was surveyed by John A. Jones, now a member of the State Railroad Commission. Chandler Barron, of Lewiston, will be the engineer in charge of the work in the field, and Samuel Ferguson of Portland will be Supt. of Construction. The roadbed will be completed this year, but the sleepers and rails will not be laid until the coming year. It is expected the road will be running by June 1, 1911. There will be ten bridges needed; the one over the Little Androscoggin River at Littlefields Corner and the one over the Presumpscot River will each be about 100 ft. in length. Noted on April 7.

OLEAN, N. Y.—The Public Service Commission, Second District, Albany, has authorized the Western New York & Pennsylvania Traction Co. to increase its capital stock to $2,600,000. The first preferred stock, not exceeding the sum of $100,000, will be used in payment of obligations of the company now outstanding, proceeds of the obligations having been used for building the Carrollton-Bradford extension, $16,790; building Salamanca-Little Valley extension, $75,000; construction Little Valley substation building, $2,640; construction Portable substation, $1,526; drilling new gas wells, $6,500. I. W. Miller, Olean, is Gen. Mgr.

LEBANON, PA.—We are officially advised that the Ephrata & Lebanon St. Ry. Co. has postponed the letting of contracts for construction on account of delay in selling stock. Company will be ready to commence construction about July 1. Surveys have been made and right-of-way obtained. The line will be about 23 miles long. F. H. Shaw, Lancaster, Pa., is Ch. Engr. Noted fully on Feb. 24.

HUNTINGDON, PA.—Construction will be started soon on the proposed line of the Huntingdon, Lewistown & Juniata Valley Traction Co., or Huntingdon. As noted on March 3, the PENNSYLVANIA EXCAVATING CO., Allentown, Pa., has the general grading contract. It is announced that the general contract has been let to the HUNTINGDON CONSTRUCTION CO., Room 4, Jacobs Bldg., Huntingdon, which is making preliminary arrangements for beginning active work. Capital stock, $1,500,000. The officers are: R. W. Jacobs, Huntingdon, Pres.; Samuel Watts, Belleville, Pa., Vice-Pres.; John M. Starr, Huntingdon, Secy. and Treas.; J. Murray Africa and L. P. McDonough, Huntingdon, are the engineers. Officially noted on March 3.

PHOENIXVILLE, PA.—Grading is under way by the Phoenixville, Valley Forge & Stafford Elec. Ry. Co. between Corner Stores and Williams' Corner. Thos. E. O'Connell, West Chester, Pa., is Pres. Noted on March 10 and Feb. 3.

SLIPPERY ROCK, PA.—J. H. Barrett, Ch. Engr. of the Pittsburg, Slippery Rock, Grove City & Northern St. Ry. Co., has started from Butler, Pa., with engineering party to make preliminary survey. Practically all right-of-way has been secured from Butler to Grove City. W. C. Thompson, of Butler, is Pres. Noted on March 31 and Feb. 10.

PEN MAR, PA.—The Blue Ridge Ry. Co., Capital $15,000, has been incorporated to build an extension of the Chambersburg, Greencastle & Waynesboro St. Ry. from Pen Mar, via Highfield, to Blue Ridge Summit, three miles. It probably will be constructed this summer. George B. Beaver, Pres.; John G. Benedict, Secy.; W. B. Stottlemyer, Treas. Directors: W. L. Minnick, John W. Wareshime, Robert D. Sefton, and J. Clarence Lane. Headquarters will be at Waynesboro, Pa.

CHATTANOOGA, TENN.—C. E. James, of Chattanooga, has applied to the Board of Aldermen for a franchise in Chattanooga for an electric railway system.

ZANESVILLE, OHIO.—The Southeastern Ohio Ry., Light & Power Co. probably will complete its line through Crooksville to New Lexington this summer, and possibly the extension to Lancaster. Wm. H. Neikirk is Gen. Mgr., Zanesville.

The City Council of McConnelsville, Ohio, granted the Muskingum & Morgan Ry., Light & Power Co., of Zanesville, a franchise to construct an electric railway over certain public highways within the corporate limits of McConnelsville. This company proposes to build an electric railway between Zanesville and Duncan Falls, as noted on Jan. 20. W. H. Pierpont, Zanesville, is Secy.

UTICA, IND.—Dix Brothers, of Utica, are reported to be interested in a plan to build a 6-mile railway from Utica to Jeffersonville, Clark County.

MURPHYSBORO, ILL.—We are officially informed that the Murphysboro & Southern Illinois Ry. Co. will let construction contracts in the near future. The line will connect Murphysboro, Carbondale, Carterville, Herrin, Duquoin and Pinkeyville, and will be 47 miles long. Right-of-way is being obtained. Surveys are made and capital is practically secured. A. B. Minton is Pres., and John L. Williams is Ch. Engr., Murphysboro. Noted on March 31.

WATERLOO, IOWA.—The Waterloo, Cedar Falls & Northern Ry. Co. has awarded the contract for grading work on its proposed extension from Denver Junction to Waverly and from Waterloo to Belle Plaine, to HARRINGTON BROS., St. Louis, Mo., it is reported. Noted on March 31.

HAVELOCK, NEB.—The City Council has granted a franchise to the Omaha, Western & Lincoln R. R. Co. to build a railway over certain streets in Havelock. Application has also been made in other towns along the route. As noted on March 24, "the OSCEOLA CONSTRUCTION CO., of Lincoln, Neb., has been organized for the purpose of building the Omaha, Western & Lincoln R. R., which will extend from Omaha to Hastings, with a branch to Lincoln. The total length of the system will be 219 miles. Headquarters, 140 South 13th St., Lincoln. Frank E. Schaaf is Pres. and Mgr.; Charles Butler, Vice-Pres.; A. J. Schaaf, Secy.; A. P. Tilley, Treas.; W. H. Fuller is Ch. Engr."

CHARLES CITY, IOWA.—City Council has granted a franchise to the Charles City & Western Ry. Co. Surveys have been completed and construction has been started on this 20-mile railway, in Charles City and extending into the surrounding country. The company's car house and shops are now under construction at Charles City. Contracts probably will be let soon for the construction of several sections of the line. Capital stock, authorized, $300,000. C. W. Hart, Charles City, is Pres. and Gen. Mgr.; E. M. Sherman, Charles City, Vice-Pres., and C. H. Parr, Charles City, Secy.

KANSAS CITY, MO.—The St. Louis-Kansas City Elec. Ry. Co., it is announced, plans to build a double-track electric railway between Kansas City and St. Louis, 250 miles, equipped with the latest electrical appliances. The right-of-way will be 100 ft. wide. The company owns 10,000 acres of coal lands. Company will construct a power plant. Surveys are practically completed and work will probably be started by June. D. C. Nevin is Pres., Commerce Bldg., Kansas City; W. B. Cauthorn, Columbia, Mo., is Ch. Engr. Noted on March 24.

HANNIBAL, MO.—The Hannibal & Northern Missouri Elec. Ry. Co., it is stated, has made surveys from Hannibal to Kirksville, Mo., about 100 miles, via Palmyra, Philadelphia, Bethel and La Plata. Contracts will be let about May 1. F. W. Latimer, of Galesburg, Ill., is Pres. The Roberts & Abbott Co., 1123 Schofield Bldg., Cleveland, Ohio, is in charge of engineering.

HOUSTON, TEX.—The Houston-Bay Shore Traction Co., composed of Detroit and Cedar Rapids capitalists, has completed arrangements for construction of an interurban line between Houston and La Porte, 24 miles in length. A. Foster Irwin, of Detroit, is Pres.

GREENVILLE, TEX.—Eastern Texas Traction Co. has secured its necessary right-of-way between Greenville, Wolfe City, Bonham, Denison, Caddo Mills, Rockwall, Dallas, Paris and Clarksville. Repair shops will be erected at Greenville. Capital stock, $12,000, which will be increased when the line is under construction. The Fred. A. Jones Co., Engrs., Houston, Tex., have preliminary survey under way. S. B. Perkins, Greenville, Tex., is Pres.; J. H. Blockus, Wolfe City, Vice-Pres.; K. N. White, Greenville, Treas., and J. B. Murphey, Greenville, Gen. Mgr. Noted on April 14.

STOCKTON, CAL.—The San Joaquin Valley Elec. Ry. Co. has sold bonds for $700,000, according to press reports, and will commence construction soon on the line between Stockton and Modesto. Harold Fenwick is Pres., San Francisco; A. H. Wallace is Engr., Stockton. Morris L. Brackett, of Stockton, is the promoter.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

LACONIA, N. H.—The Laconia Electric Light Co. has awarded contract, it is reported, for the construction of its new plant at East Tilton, to the STONE & WEBSTER CORPORATION, 147 Milk St., Boston, Mass. G. M. Rossman, of Keene, N. H., is Mgr.

WEST STOCKBRIDGE, MASS.—The citizens have voted to install electric lamps at Williamsville, and from West Stockbridge to the State Line.

MILTON, MASS.—The Selectmen have awarded a new contract to the EDISON ELECTRIC ILLUMINATING CO., 39 Boylston St., Boston, for lighting the streets of the town for five years. The company is to furnish 768 incandescent lamps of 30 c. p., at $22.31 each per year.

NORTH ADAMS, MASS.—The Light, Heat & Power Corporation has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for a 1,500-KW., 2,300-volt, 60-cycle, 3,600-r. p. m., condensing turbine. The vacuum will be maintained by an Allis-Chalmers type "C" condenser with motor-driven pumps.

WOONSOCKET, R. I.—Contracts have been awarded by the Manufacturers Power Co. to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for a 1,200-KW., 600-volt, 60-cycle, 3-phase, 1,800-r. p. m., condensing steam turbo-generator set for its power-house here. A 25-KW., impulse, turbine-driven generator and a 22½-KW, 120-volt motor generator set will furnish excitation current. The vacuum will be maintained by an Allis-Chalmers type "C" condenser, the pumps of which will be driven by an impulse turbine.

LONG ISLAND CITY (L. I.), N. Y.—Bids were opened by Lawrence Gresser, Pres. Boro. Queens, on April 12, as follows, for furnishing and installing electric, combination and gas lighting fixtures in the Queens County court-house, Long Island City: Mitchell Vance Co., 507 West 24th St., New York, $6,885; Corden & De Young, $10,000; Gaites, Peace & Co., $10,875.

LONG ISLAND CITY (L. I.), N. Y.—Bids are asked until 11 a. m., May 5, by Lawrence Gresser, Pres. Boro. of Queens, for all material and labor required for furnishing and installing electric combination and gas lighting fixtures in the Queens County court-house, Long Island City.

BROOKLYN, N. Y.—Bids are asked by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., May 4, for supplying all labor and materials of every kind and description and constructing the station building to be known as the power and gate houses and appurtenances complete for the Gowanus flushing tunnel, situated at Douglass St. and the head of Gowanus Canal, Boro. Brooklyn.

BUFFALO, N. Y.—The Washburn-Crosby Co. has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for additional equipment for its Buffalo mill. The contract includes flour milling machines driven by two 500-HP. and one 300-HP., 440-volt, 3-phase, 25-cycle, 300-r. p. m., induction motors.

*YOUNGSTOWN, N. Y.—Bids are asked by the Board of Trustees until 8 p. m., May 10, for the following equipment installed complete and ready for operation: Two gasoline engines of 15 actual HP. each connected by a clutch to be approved by the engineer to a Triplex outside guided power pump having a capacity of 200 gallons per minute; one single cylinder steel tank pressure filter with a guaranteed capacity of 200 gallons of bright, filtered water per minute, so arranged that the filter may be by-passed and either or both pumps discharge direct into village mains. Prices for the above equipment will be received in lump sum for pumps, engines and filter erected and piped from intake pipe at wall of building, including one 8-in. check valve to be set by pipe laying contractor in subtake line, as per specifications of the engineer, to and including check valve 8 ins. on general delivery just outside of wall of building. Also bids will be received on each article, pumps, engines or filter separately to meet requirements of each of the other pumps or engines or filter. Pipings, guarantees, payments, etc., all except capacity to be according to specifications which can be obtained from Charles Taylor, Village Clk., or J. F. Witmer, Buffalo, N. Y., Engr.

IRVINGTON, N. J.—The Town Council has awarded contract to the PUBLIC SERVICE CORPORATION OF NEW JERSEY, 763 Broad St., Newark, for a period of five years, to furnish 30-c. p. incandescent lamps at $15 per lamp per year, which is a reduction of $2 per lamp per year on the old contract. Dudley Farrand is Gen. Mgr. Elec. Dept.

PHILADELPHIA, PA.—Lummis & Co., of Philadelphia, have awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for electrical machinery for their warehouse, including a 100-KW., 240-volt, 275-r. p. m., direct-current generator, direct connected to a gas engine; three 25-HP., one 30-HP. and one 5-HP. motors, together with switchboard.

BEDFORD CITY, VA.—Bonds for $100,000 were sold on April 16 for the construction of the municipal hydroelectric plant.

EAST SPENCER, N. C.—See item under Water Supply—Irrigation.

ATLANTA, GA.—Contract for installing light fixtures in the U. S. public building, Atlanta, has been awarded to the DAVID J. BRAUN MFG. CO., 135 West Washington St., Chicago, Ill., at $8,436.

*FORT MORGAN, ALA.—Bids are asked by Capt. H. B. Chamberlain, Q. M., U. S. A., until 1.30 p. m., May 23, for the construction of an electric lighting system at Fort Morgan.

BRISTOL, TENN.—THEODORE SWANN has been awarded contract by the Board of Mayor and Aldermen for lighting the city for a term of ten years from April 1, 1911, at $5 per month for arc lights and $1 per month for 32-c. p. incandescent lamps.

COLUMBUS, OHIO.—Bids will be received until May 14 by the Board of Managers of the Ohio Penitentiary, George U. Marvin, Secy., for a switchboard and connecting cables for controlling alternating current generators in the new power-house now being built at the Ohio Penitentiary. The Osborn Engineering Co. are Engrs., Osborn Bldg., Cleveland.

DAYTON, OHIO.—The Dayton Lighting Co., the Dayton Gas Co. and the Welsbach Street Lighting Co. of America, 218 La Salle St., Chicago, have submitted bids for the lighting of the city to the Director of Public Service. The bids were as follows: Dayton Lighting Co., 10-year contract, total arc lamps, per lamp per year for the underground district, $68.40; overhead district, $66; same by incandescent lamps, $24; Dayton Lighting Co. in districts unspecified, $102 for arc lamps, $30 for incandescents; for a period of five years, $68.50 for arc lamps, $36 for incandescents. Dayton Gas Co., 10-year contract, district not specified, $22.50; 5-year contract, $24. The bids of both the above companies are for maintenance and light and equipment. Welsbach Co., equipment and maintenance only, for 5-year contract, $11.85 for equipment, maintenance and gas for same period, $21.85; for ten years, equipment and maintenance, $10.85; equipment, maintenance and gas, for ten years, $20.85.

CINCINNATI, OHIO.—Bids are asked until noon, May 12, by the Board of Managers of the Ohio Penitentiary for a complete system of steam and water piping for the new power-house now being erected in the prison grounds. Marriott & Allen, 20 East Broad St., Columbus, Ohio, are Archs.

DETROIT, MICH.—Albert Kahn and E. Wilby, Archs., Trussed Concrete Bldg., Detroit, have let the general contract for the 6-story reinforced-concrete power building for Dodge Bros., Jefferson Ave. and Brush St., to L. P. HENZEN & CO., of Cincinnati, Ohio. Contract for ornamental iron work was let to W. S. TYLER CO., of Cleveland, Ohio.

GREEN BAY, WIS.—Foeller and Schober, Archs., have awarded the following contracts on the addition and power-house for St. Joseph's Academy: To MARTIN & WIGMAN, for heating and ventilating; to LE CLAIRE BROS., for electrical work.

TROY, KAN.—Contract has been awarded by the city to the ATCHISON ELECTRIC LIGHT & POWER CO., of Atchison, for supplying light and power to Troy. The city will build its own distributing line to carry the electricity from Atchison to Troy, at a cost of about $16,000.

WYNOT, NEB.—An electric light plant, it is reported, will soon be established here. It is proposed to install electrical machinery in the flour mill, which is operated by the water of Bow Creek, and the plant will furnish electricity for lamps and motors in Wynot. T. N. Jones is interested.

MILFORD, NEB.—See item under Water Supply—Irrigation.

LIBBY, MONT.—J. F. Reynaud, of Sandpoint, Idaho, has applied to the Town Council for a franchise to construct and operate an electric light and water-works plant here.

KIRKSVILLE, MO.—The Kirksville Gas Co. will install this summer a new gas equipment and a gas holder, to double the capacity of its present plant.

FORT LOGAN H. ROOTS, ARK.—Bids will be received by the Constructing Q. M., U. S. A., until May 10 for wiring buildings and constructing an electric lighting system at Fort Logan H. Roots.

HANDLEY, TEX.—The Northern Texas Traction Co., contemplates the construction of a new power-house here. Estimated cost, $30,000.

PORT ARTHUR, TEX.—Plans are being considered by the Port Arthur Water Co. for the construction of an addition to its power-house and the installation of an 800-HP. steam turbine and an ice machine.

SOUTH BEND, WASH.—The ALLIS-CHALMERS CO., of Milwaukee, Wis., has been awarded contract for furnishing the power equipment for the new mill of the Kleeb Lumber Co., which will be equipped for electric motor drive throughout. The machinery will include a 300-KW., 480-volt, 60-cycle, 3-phase, 3,600-r. p. m., alternating-current, steam turbo-generator set, a surface condenser for maintaining vacuum, a 15-KW., 120-volt, motor-generator exciter set, a 3-panel switchboard, with necessary controlling apparatus, and 22 induction motors, ranging from 5 to 200 HP. for driving machinery in mill.

TACOMA, WASH.—Contract for installing lighting fixtures in the U. S. public building here has been awarded to the DAVID J. BRAUN MFG. CO., 135 West Washington St., Chicago, Ill., at $5,861.

HERMISTON, ORE.—J. S. West, John Nessen and Julius Beeman have formed the Electric Light & Power Co. and have asked the Council for a franchise to construct, maintain and operate an electric plant here.

LOS ANGELES, CAL.—The Los Angeles Gas & Electric Corporation has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for three additional 500-KVA., oil-filled, self-cooled transformers and three 500-K. V. A., oil-filled, water-cooled transformers.

LOS ANGELES, CAL.—Contract for installing light fixtures in the U. S. public building, Los Angeles, has been awarded to the DAVID J. BRAUN MFG. CO., 135 West Washington St., Chicago, Ill., $8,588.

KINGMAN, ARIZ.—The capacity of the electric power plant of the Tracy Engineering Co., Central Bldg., Kingman, will be increased by the installation of more machinery. Estimated cost, $30,000.

HAILEY, IDAHO.—See item under Water Supply—Irrigation.

TORONTO, ONT.—The SAFETY INSULATED WIRE & CABLE CO., 114 Liberty St., New York, has been awarded the contract for laying conduit at the railroad crossings here, at $11,387.

STRATFORD, ONT.—The citizens on April 14 voted to construct a distribution plant for Niagara power. J. J. Mason is Chn. Light and Heat Comn.

WINNIPEG, MAN.—Bids are asked until May 16 by the Board of Control for Winnipag Electrical Distribution System, for the following items: No. 51, conduit; No. 52, construction conduit runs 1910; No. 53, substation transformers and switching apparatus. Copies of the plans and forms of proposal may be obtained from the Power Engineer's Office, Carnegie Library, William Ave., Winnipeg.

Bids are asked until May 3 by the Board of Control for supply of straight line belt driven air compressor, having a reliable automatic unloading device to be furnished complete with a full set of sight feed oil cups, to have a capacity of at least 250 ft. of free air per minute, compressed to a pressure of 100 lbs. to the sq. in. and to be delivered f. o. b. cars city quarry Stoney Mountain.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

*SYRACUSE, N. Y.—The Board of Contract and Supply has awarded contract to SAMUEL BONN, of Syracuse, for constructing a reinforced-concrete arch bridge over Onondaga Creek at Dickerson St., at $6,561. Bids were opened on April 11.

*RYE, N. Y.—Bids for constructing a reinforced-concrete bridge, 30 ft. span and 38 ft. wide, will be received until 8 p. m., May 4. George L. Henderson is Village Clk.

RUTHERFORD, N. J.—Contract for constructing a new bridge over the Erie R. R. tracks at Montrose Ave. has been awarded by the Board of Chosen Freeholders, Hackensack, to the SNARE & TRIEST CO., 143 Liberty St., New York, at $13,650. List of bidders noted on April 7.

LEWISBURG, PA.—Bids are asked until 11.20 a. m., April 30, by the Union County Commissioners, Lewisburg, for the construction and erection of three bridges in the Brush Valley Narrows, known as Sand Bridge, High Bridge and the Half-Way Bridge. Bids will be received for the construction of the substructure or masonry and for the construction and erection of steel girder superstructure. G. T. Biehl is Clk.

WILMINGTON, DEL.—Bids will be received by the Levy Court at Wilmington until May 3 for the construction of a reinforced-concrete girder bridge at Nexentown Mill dam, St. Georges Hundred. James Wilson is County Engr.

WINSTON-SALEM, N. C.—The R. J. Reynolds Tobacco Co. has had plans prepared by J. N. Ambler, of Knoxville, for a culvert, 407 ft. long, 5 ft. 3 ins. high and 4½ ft. wide, concrete, reinforced steel and iron.

COOKEVILLE, TENN.—The Tennessee, Alabama & Kentucky R. R. Co., Rutledge Smith, Pres., will bridge the Tennessee River, Caney Fork and Cumberland Rivers and about 15 small creeks.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., May 14, by John F. Goldenbogen, Clk. County Comrs., for the construction of bridge work per report No. 2570, embankment, Barrett Road, Olmsted Township. Frank R. Lander is County Surv.

LIMA, OHIO.—Bids for the construction of the new Shawnee bridge were opened on April 14 by the Board of Control. The bids were as follows: For 24-ft. roadway and two 5-ft. walks: Val Heil, $12,622; Capitol Construction Co., $9,063; Geiger & Son, $9,317; Hackedorn Construction Co., $8,722; Herman Tapp Co., $9,424; Illinois Bridge Co., (not tabulated). For 20-ft. roadway and two 5-ft. walks: Val Heil, $12,010; Capitol Construction Co., $8,637; Geiger & Son, $8,427; Hackedorn Construction Co., $7,668; Herman Tapp Co., $8,642; Illinois Bridge Co. (not tabulated).

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners of Cuyahoga County until 11 a. m., April 30, for paving of bridge approaches over Belt Line R. R., on Broadview Road, in Brooklyn and Brooklyn Heights Townships, in accordance with the form of contract and specifications to be furnished by Frank R. Lander, County Surv.

ROCKPORT, IND.—John T. White, Audr. Spencer County, will receive bids until 2 p. m., May 12, for the construction of five bridges, one each in Jackson, Carroll and Huff Townships and two in Ohio Township; also for a concrete culvert near Grand View.

FRANKLIN, IND.—The Commissioners of Johnson County are asking for bids for the construction of three bridges. W. B. Jennings is County Audr.

MOLINE, ILL.—The Moline-Bettendorf Bridge Co., of Moline, has been incorporated, it is reported, to construct and maintain a bridge over the Mississippi River. The incorporators are William P. Bettendorf, William Butterworth, William A. Meese and others.

CEDAR RAPIDS, IOWA.—Bids will be received by the City Clerk until May 7 for the construction of a reinforced-concrete bridge over Cedar River at Third Ave., of six spans, 96 ft. each, roadway 48 ft. wide, two sidewalks, each 8 ft. wide. Estimated cost, $130,000.

MARSHALLTOWN, IOWA.—Contract for six reinforced-concrete bridges, ranging in the length of their spans from 30 to about 100 ft., were let by the Board of Supervisors on April 16 to the M. M. STARK CO., of Des Moines, at $14,090. The bridges to be replaced by the new permanent structures are scattered over the county. Two other firms, the Marsh Engineering Co., of Des Moines, and the Advance Construction Co., of Waterloo, bid on the work. The former's bid was $17,410 and the latter's bid was $15,463.

LEAVENWORTH, KAN.—Bids will be asked until noon, May 2, by J. W. Nicholson, County Clk., for building and repairing bridges No. 128 (Wosser), No. 304 (Carroll), No. 301 (Lenape and De Soto), No. 153 (Harmer), No. 87 and Steneil Culvert.

KANSAS CITY, MO.—The Board of Public Works on April 12 approved plans for a trafficway and concrete and steel arch bridge at McGee and 23d Sts. Estimated cost, $50,000.

CAMERON, TEX.—Milam County will construct a steel bridge across the Little Gabriel River at Glasscock Crossing. Bids will be asked by the County Commissioners until May 15.

MAY, OKLA.—Bids are asked by Harper County until May 2 for constructing a wooden pile bridge across Beaver River. E. L. Hubbard is County Clk., Buffalo.

FORT MORGAN, COLO.—Bids will be asked until noon, April 30, by Charles E. Comstock, State Engr., Denver, Colo., for the fabrication and construction of a highway bridge across the Platte River at or near the point where division line between ranges 58 and 59 crosses the river, in Morgan County, Colo.

SOUTH BEND, WASH.—Bids will be received until May 2 by E. H. Seaborg, County Audr., South Bend, for constructing a 440-ft. pratt steel truss bridge over Willapa River near Holcomb.

SAN JOSE, CAL.—Contract for the construction of a reinforced-concrete bridge over Coyote Creek on San Jose Road, bids opened on April 5, has been awarded by the County to JOHN W. WILLIAM, at $14,500. J. G. McMillan is County Surv.

LOS ANGELES, CAL.—The MERCHEANT BRIDGE & CONSTRUCTION CO., of Los Angeles, was awarded contract on April 11 for building a reinforced-concrete bridge on Washington St., near the junction with Adams St., west of the city limits, at $5,460.

BOISE CITY, IDAHO.—FRANK N. HOFFMAN and A. L. DENNISEN, of Rochester, Minn., have been awarded contract for the construction of three steel bridges in Idaho near Boise City, at $45,000.

OAKVILLE, ONT.—Bids will be received by William Panton, County Clk., Milton, Ont., until noon, May 3, for the construction of a reinforced-concrete arch of 135 ft. span, and 340 ft. of concrete viaduct approach on the Middel Road between the town of Oakville and the township of Trafalgar; also alternative bids will be received as above for concrete piers and abutments for a steel bridge for the same site. Plans and specifications may be seen and all necessary information may be obtained at the offices of James Hutcheon, County Engr. for Halton, Gueiph, Ont., or James C. Ford, Reeve of Oakville, or Barber & Young, Consulting Engrs., 57 Adelaide St. East, Toronto.

ELLICE, MAN.—Bids are asked until May 7 by Henry Tillman, Secy.-Treas. Ellice Municipality, for building a bridge over Assiniboine River. Plans, etc., at office of Department of Public Works, Winnipeg.

BUILDINGS.

(* *denotes that this work is advertised in Engineering News.*)

FORT McKINLEY (Portland post-office), ME.—Bids are asked until 10 a. m., May 9, by Capt. C. P. Humphrey, Jr., Constr. Q. M., 655 Congress St., Portland, for construction of additions and alterations to the post hospital at Fort McKinley, Me.

*KEENE, N. H.—Bids are asked until 3 p. m., May 31, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Keene, N. H.

WATERBURY, CONN.—Bids are asked by the Board of Education until 7.45 p. m., May 16, for the construction of a 6-room addition to the Merriman School, including all masonry, carpenter and electric and heating work. A. L. Goodrich, Clerk.

NEW YORK, N. Y.—Bids are asked by the Board of Water Supply until 11 a. m., May 14, for Contract No. 81, for the construction of four field office buildings and five horse sheds in the Croton, White Plains and Hill View Divisions of the Catskill Aqueduct, in the towns of Mount Pleasant and Greenburg and the City of Yonkers, Westchester County, N. Y.

Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, until 11 a. m., May 19, (1) for alterations, repairs, etc., at Public Schools Nos. 24, 30, 37, 39, 57, 66, 68, 72, 78, 83, 89 and 121, Boro. of Manhattan; (2) for alterations, repairs, etc., at Public Schools 103, 109, 119, 150, 151, 159, 168, 171 and 172, Borough of Manhattan.

NEW YORK, N. Y.—Bids are asked by William F. Baker, Police Comr., until 10 a. m., May 4, (1) for the construction and entire completion of an extension, and for general repairs and improvements to the proposed 99th Precinct police station house situated at 116 Main St., Tottenville, Boro. of Richmond, in the City of New York, and (2) for the materials necessary for the complete installation of plumbing work and fixtures at the proposed 99th Precinct police station house.

Plans have been filed by Schwartz & Gross, 347 Fifth Ave., for a 16-story office and loft building to be erected on the south side of 32d St., 189.10 ft. east of Broadway, running through the block to 31st St., for the Arena Construction Co., of which Joseph Brody is Pres. The cost is estimated at $500,000.

The First National Bank is about to spend $100,000 in altering the United Bank Building, at the northeast corner of Wall St. and Broadway. A considerable portion of the

sum is to go toward strengthening the walls of the building. A vault is to be built in the east banking room of the basement floor and provision made for new elevator service. The architects are Peabody & Stearn, Exchange Bldg., Boston, Mass. The building has eight stories and basement. It fronts 72 ft. on Broadway and 91 ft. on Wall St.

Plans have been filed for a 12-story apartment to be erected for the Yorkshire Realty Co., Henry Mayer, Pres., at the northwest corner of 92d St. and Broadway. The building will have a frontage of 107.4 ft. on Broadway, and 115 ft. on the street, and will accommodate 58 families. Neville & Bagge are Archs., 217 West 125th St. Estimated cost, $300,000.

NEW YORK, N. Y.—Maynicke & Franke, Archs., 208 Fifth Ave., have filed plans for a 12-story addition to Stern Bros. store. The new building will be erected at 28 and 30 West 23d St., running through the block to 9 to 19 West 22d St.; it will have a frontage of 159.2¼ ft. on 22d St. and 50 ft. on 23d St. The 22d St. front will be of plain ornamentation, while the 23d St. front will be ornamented and adorned with Greek Ionic columns of brick, limestone and terra cotta. The cost is estimated at $700,000.

The Highwood Realty & Construction Co., Julius Weinstein, Pres., has filed plans for a 12-story elevator apartment house at the north corner of Riverside Drive and 99th St., to cost $775,000, from plans by W. L. Rouse and L. A. Goldstone, 12 West 32d St. The building will have a frontage of 105 ft. on the drive and 112.1 ft. on the street. The facade will be of brick, limestone and terra-cotta ornamented with balconies at the second, sixth and ninth floors, and Ionic columns from the eleventh to the twelfth floor. It will contain apartments for 49 families.

T. J. McLaughlin's Sons have filed plans for a structure of about the same size for the north corner of Broadway and 98th St., to cost $1,000,000.

Plans have been filed for converting the 3-story church and rectory of the Roman Catholic Church of the Guardian Angel, at 511 to 515 West 23d St., into a church and school, at a cost of $40,000. The front and side walls are to be rebuilt and interior partitions removed to allow for the use of twelve classrooms on the second, third and fourth floors. In the basement will be the assembly room and on the first floor will be the auditorium and sanctuary. On the roof will be separate playgrounds for girls and boys, divided by an open court.

Plans have been filed for a 5-story dwelling house, to be erected for Albert Blum, on the north side of 73d St., 122.8 ft. west of Madison Ave. G. & E. Blum, 505 Fifth Ave., are Archs. Estimated cost, $40,000.

NEW YORK, N. Y.—The Metropolitan Life Insurance Co. has acquired a tract of land in the northern part of Westchester County for the purpose of building a sanitarium for the treatment of employees having tuberculosis. The property, consisting of the Teed and Allan farms, comprises 225 acres in Somers Center, on the Lake Mahopac branch of the Harlem Division, New York Central R. R. The equipment of the sanitarium will comprise a central administration building, and portable cottages of the approved type. Should the privilege to build be granted by the court it should be ready within a year. John R. Hegeman is Pres.

Charles W. Buckham, Arch., 307 Fifth Ave., is preparing plans for a 13-story cooperative apartment house, which is to be built at a cost approximating $1,000,000, at the southwest corner of 62d St. and Central Park West. The plot has a frontage of 100.5 in Central Park West and 100 ft. in 62d St. The main entrance of the Central Park West frontage is to be elliptical in form, with a driveway leading to the central entrance of the main foyer on the first floor. The driveway entrance and walks for foot passengers will be enclosed by a colonnade of four large, classic pillars of polished granite. The color scheme of the facade will be of light gray relieved by greens and red. There will be a roof garden, and it is planned to so arrange a part of this that theatrical entertainments may be given on the roof. The main lobby will be panelled from floor to ceiling, and the panels will be treated with mural paintings by Elliot Clark. The apartments will be arranged in duplex as well as simplex suites, all so planned that they will have rooms looking upon Central Park. The building is to be erected by the New York Suburban Real Estate Co., J. Harvey Wood, Jr., Pres.

ELLIS ISLAND (New York post-office), N. Y.—The following bids were received on April 20 by the Commissioner of Immigration, Ellis Island, for alterations to the northwest wing of the main building at this station: Louis Wechsler, $59,700; M. B. Smythe, $59,641; Fountain & Choat, $59,500; Snare & Triest, 143 Liberty St., New York, $56,920; N. Y. State Construction Co., $56,261; D. J. Ryan, $57,340; Geo. Sykes, 1123 Broadway, New York, $51,370.

ALBANY, N. Y.—The bids received by Dr. A. S. Draper, Comr. of Education, on April 26, for the construction of the State Normal School at Oswego, N. Y., including heating, plumbing, electric work and gas piping, were: (a) Using Lockport limestone and grade "B" Rutland marble; (b) using Lockport limestone and South Dover marble: Raymond M. Booth, Albany, N. Y., (a) $448,200, (b) $446,500; Wills & Marvin Co., 1270 Broadway, New York, (a) $408,676, (b) $393,675; Mosier & Summers, Buffalo, N. Y., (a) $412,000, (b) $412,000; Charles H. Peckworth, 415 Hudson St., New York, (a) $435,319, (b) $429,256; Luke A. Burke & Sons, 25 West 42d St., (a) $419,000, (b) $400,000; Peter Keeler Building Co., Albany, N. Y., (a) $455,555, (b) $449,535; Morris Kantrowitz, Albany, N. Y., (a) $396,000, (b) $438,000; P. J. Carlin Construction Co., 16 East 23d St., New York, (a) $488,000, (b) $477,000; Peter Raby, Oswego, N. Y., (a) $489,450, (b) $479,900; W. H. Fissell & Co., 1133 Broadway, New York, (a) $435,000, (b) $445,000; O. H. Everett, Buffalo, N. Y., (a) $456,693, (b) $438,169; Durolithic Co., Buffalo, N. Y., (a) $409,900, (b) $407,000; R. E. Henningham, 1 Madison Ave., New York, (a) $434,948, (b) $424,948; Burns Bros. & Haley, Watertown, N. Y., (a) $493,200, (b) $498,100; A. Pasquini, New York, (a) $428,400, (b) $435,000. F. B. Ware is State Arch.

BUFFALO, N. Y.—The New York Central & Hudson River R. R. Co., Geo. W. Kittredge, Ch. Engr., 42d St. and Madison Ave., New York, is receiving bids for two warehouses, each 200 × 200 ft., two stories, brick and steel construction, to be erected at the Buffalo River and Ohio St. The Western Transit Co. and the Knowlton Warehouse Co., Lessees.

Colson & Hudson, 35 Dun Bldg., have completed plans and are receiving bids for a 6-story and basement warehouse, 43 × 125 ft., to be erected at Washington and Mohawk Sts., by William H. Horkhiss, 656 Ellicott Sq. Bldg. Gerber, Nott & Co., Lessees. It will be of steel frame and brick construction, taking 425 tons structural steel and will have one freight and one passenger elevator.

HOBOKEN, N. J.—The following bids were received by the Board of Education on April 18, for erection and completion of a high school on the corner of Garden, Fourth and Bloomfield Sts.: W. H. & F. W. CANE, Hudson Boulevard, Bayonne, N. J., $222,644 (awarded contract); Alexander Whan, $224,296; James Whalen Co., $243,050; Joseph Jewkes Sons Co., $223,300; C. H. Peckworth, 415 Hudson St., New York, $224,415; J. F. Walsh Construction Co., 1 Madison Ave., New York, $226,940; G. Decker, $232,482.

READING, PA.—GEORGE H. BEARD & CO. have taken out a permit for the erection of a 4-story brick bank building, 40 × 126 ft., with slag roof, on the east side of Sixth St., between Court and Washington Sts., for the Berks County Trust Co. The estimated cost of construction is $75,000.

NEW CASTLE, PA.—Bids are asked until 8 p. m., May 16, by the School Board for constructing a high school building.

HAVERFORD, PA.—F. L. HOOVER & SONS, INC., 18 South Seventh St., Philadelphia, have been awarded a contract to build a $50,000 chemical laboratory on the grounds of Haverford College, at Haverford. The new building will be a 3-story and basement stone and fireproof structure, 92 × 58 ft. Bailey & Bassett are Archs., 421 Chestnut St.

PHILADELPHIA, PA.—JAMES R. SCOTT has a contract to build a row of twelve 2-story houses, each 16 × 65 ft., on the north side of Walnut St., between 55th and 56th Sts.

John L. Fry Real Estate Trust is taking estimates for 17 3-story houses on the west side of Broad St., above Lycoming St., and 31 2-story houses on both sides of Jerome St., between Broad and 16th Sts.

Three 4-story flat houses are to be built by the Satterlee Realty Co. on a plot of ground at the southeast corner of 46th and Chestnut Sts. Each building will occupy a lot 50 ft. × 85 ft. 6 ins. The total cost will be $110,000.

WASHINGTON, D. C.—Bids were received as follows on April 21 by the Commissioners of the District of Columbia for the construction of an addition to each of the following schools: (a) Lovejoy, (b) Bennings School No. 48, (c) Bunker Hill School, Brookland, and (d) for the work on all three: Howison & Skenker, Evans Bldg., (a) $37,873, (b) $34,456, (c) $23,859, (d) $96,000; Burgess & Parsons, 612 13th St., N. W., (a) $33,700, (b) $30,800, (c) $22,500, (d) $85,000; W. E. Mooney, Lenman Bldg., (a) $34,956, (b) $36,297, (c) $24,474, (d) $96,357; Hoge & Lubkert Co., (a) $37,200, (b) $34,200, (c) $26,862, (d) $98,800; Boyle-Robertson Construction Co., Union Trust Bldg., (a) $32,983, (b) $31,983, (c) $24,790, (d) $89,000; Joseph H. Gibbons, 1314 North Carolina Ave., N. E., (c) $22,900. All bidders of Washington, D. C.

Milburn, Heister & Co., Archs., Home Life Bldg., Washington, D. C., have awarded the contract to W. P. LIPSCOMB & CO., 1700 Massachusetts Ave., for the District National Bank on a percentage basis.

The contract to prepare plans for the erection in this city of the $1,000,000 temple of the Scottish Rite Masons has been awarded to John Russell Pope, 527 Fifth Ave., New York.

The contract for the steel work for the District National Bank was awarded to BARBER & ROSS, Eleventh and G Sts., N. W. Plans have been made by Milburn, Heister & Co., Home Life Bldg.

CONCORD, N. C.—Bids were received as follows on April 19 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at Concord, N. C.: King Lumber Co., Charlottesville, Va., $57,900; Richardson & Burgess, Washington, $50,657; Barnes Bros., Manchester, Va., $54,400; Joseph Seay & Co., Petersburg, Va., $48,700; J. H. Bronson, Hampton, Va., $53,770; D. J. Phipps, Newport News, Va., $50,790; J. H. Richardson & Son, Hampton, Va., $49,738; Atlantic Construction Co., Bridgeton, N. J., $56,016.

GRIFFIN, GA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., May 25, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Griffin.

FORT OGLETHORPE, (Dodge post-office), GA.—Bids are asked until 11 a. m., May 2, by Capt. George Vidmer, Constr. Q. M., for constructing a quartermaster's storehouse at this post.

*NEW ORLEANS, LA.—Bids are asked by the Board of Commissioners of the Port of New Orleans, at 601-602 Hibernia Bank & Trust Co. Bldg., until 1.30 p. m., May 20, for the fabrication and erection of the structural steel and cast iron for various sheds. A. C. Bell is Engr.

DELAWARE, OHIO.—Bids are asked until 3 p. m., May 23, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Delaware.

ASHTABULA, OHIO.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has rejected all bids recently received for the construction of a post-office at Ashtabula, except the lowest, and will call upon the lowest bidder for betterments.

AKRON, OHIO.—The contract for the proposed Second National Bank at the corner of Quarry and Main Sts., has been awarded to G. W. CARMICHAEL & CO. The building is to cost $450,000 and will be six stories high. Work will be started at once, and will not be completed in less than twelve months. Twelve contractors submitted bids. The foundations are solid rock and will make natural walls for the vaults in the basement of the bank. The upper stories will be let out into offices.

MANSFIELD, OHIO.—SIMON SMALL & SON have been awarded the contract at Mansfield for the construction of a school building after plans by Richards, McCarty & Bulford, The Ruggery, Columbus. The McKEEVER ELECTRIC CO., of Columbus, has been awarded the contract for the electrical work; FITZPATRICK & HOEFFNER, Columbus, for the heating system, and the WILLIAM H. CONKLIN CO., Columbus, for the plumbing.

GREENCASTLE, IND.—Bids were received as follows on April 20 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Greencastle, Ind.: Conners Bros. Co., Lowell, Mass., $90,000; Wm. P. Jungclaus Co., Indianapolis, Ind., $64,000; Bedford Stone & Construction Co., Indianapolis, Ind., $55,000; King Lumber Co., Charlottesville, Va., $54,550; James W. Bishop, Crawfordville, Ind., $49,497; Edward Henry, Sault Ste. Marie, Mich., $54,275; August Ohm, Terre Haute, Ind., $50,000.

SANDUSKY, IND.—Bids are asked by the School Trustees for a 3-story brick school house. Plans have been prepared by Elmer E. Dunlap, Arch., State Life Bldg., Indianapolis, for the erection.

VINCENNES, IND.—GLASS & BOUVY have been awarded a contract for the construction of a business block on Sixth St. for Miss Frances Glass.

LAPORTE, IND.—The Laporte Realty Co. is asking for bids for the construction of 100 houses in blocks of ten. The houses will cost $1,300 each.

DETROIT, MICH.—Pottle & Mahler, Archs., Dearborn St., Chicago, have let the following contracts for the proposed 6-story and basement building, 50 × 100 ft., for D. J. Healy, 224 Woodward Ave., Detroit: Carpentry, to SCHMIEDT-SISMAN CO., 395 Beaufait St.; plastering, to M. FINN, 138 Pine St.; plumbing, to HARRIGAN & REID, 70 Bates St. The building is to cost $80,000.

Dr. W. L. Babcock, Supt. of Grace Hospital, Willis Ave., Detroit, has been authorized by the Board of Trustees to ask for bids on excavating at once for a 3-story addition to the present Hospital addition. Cost, $100,000. Also an addition will be built to the Nurse's Home for the accommodation of the extra nurses who will be required when the hospital addition is completed. E. F. Stevens, Arch., 93 Federal St., Boston, Mass., will draw the plans.

DETROIT, MICH.—Mildner & Elsen, Archs., Hammond Bldg., Detroit, are preparing plans and specifications for a theater building to be located on Jefferson Ave., for William F. Klatt, 24 Monroe Ave. Paving and stock brick, Bedford cut stone, composition roof and electric fixtures will be used in construction.

The same architects are preparing plans for a 2-story theater, 60 × 100 ft., for William F. Klatt, 24 Monroe Ave. The theater is to be located on Gratiot Ave. Construction will be of press and stock brick, Bedford cut stone, with composition roof, galvanized iron skylight and cornice, structural iron, mosaic tiling and electric fixtures will be used in construction.

The Board of Education of Detroit, William Lee, Secy., 50 Broadway, Detroit, at a regular meeting of the Board on April 14 adopted a resolution for a 17-room school building, north of Jefferson Ave., between Fox and Connor Creeks. An appropriation of $73,000 has been asked for. Malcomson & Higginbothom, Archs., 404 Moffat Bldg., will prepare plans.

Smith, Hinchman & Grylls, Archs., Washington Arcade Bldg., Detroit, let the following contracts on April 5 for the addition to the Central Methodist Church, Rev. F. D. Leete, Pastor, 519 Second Ave., Detroit: Masonry, cut stone and iron work, to W. S. VIVIER, 189 Avery St.; carpentry, to CONRAD KELLER & CO., 657 Canfield St.; plastering, to M. FINN & SON, 138 Pine St.; roofing, to PUDRITH & CANDLER, 74 Brush St.; steam heating, to J. W. PARTLAN, 51 Park St.; electric work, to McCLEARY-HARMON CO., Stevens Bldg.

CROSSWELL, MICH.—W. D. Butterfield, Arch., 207 Stevens Bldg., Detroit, has let for the Board of Education of Crosswell, Mich., the general contract for a brick school to L. D. COLE, of Mount Pleasant, Mich.

GRAND RAPIDS, MICH.—C. S. Vierherlig, Arch., Houseman Block, Grand Rapids, Mich., has prepared plans and specifications for a 4-story and basement seminary, 63 × 52 ft., for St. Andrew's Parish, Rev. Fr. Smith, Rector, Maple and Sheldon Sts. Press brick, stone trimmings, composition roof and electric fixtures will be used in construction.

Pierre Lindhout, Arch., Ashton Bldg., Grand Rapids, Mich., has prepared plans and specifications for a church, 115 × 200 ft., to cost about $75,000, for the Wealthy Ave. Baptist Society. The church is to be fireproof, of press brick, Bedford cut stone construction, with composition roof, dome skylight, galvanized iron and stone cornice, structural and ornamental iron, mosaic tiling and combination fixtures.

The same architect is preparing plans and specifications for a church, 90 × 60 ft., for Zeeland Second Reformed Church. The architect will take figures soon. Brick, Bedford cut stone, composition roof, dome skylight, concrete floors and electric fixtures will be used in construction.

ROCK ISLAND, ILL.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has rejected all bids recently received for the construction of an extension to the post-office at Rock Island, Ill. The work will be indefinitely postponed.

SUPERIOR, WIS.—At a recent meeting of the Executive Committee of the State Board of Normal School Regents held at Madison, the following contracts were awarded on the dormitory to be erected at the school in Superior: General construction work, EMIL SEDLACHEK and ARRIS-SHERRICK CO., Superior; heating system, AMERICAN HEATING CO., Superior, plumbing, STACK BROS., Superior; electrical wiring, NEIL & CO., Superior, amounting in all to $49,229. The appropriation amounted to $65,000 and it is estimated that the equipment will cost $15,000.

MILWAUKEE, WIS.—The Wisconsin Consistory of Masons has tentative plans for a $500,000 building to be erected in this city. Several sites are now under consideration and it is expected that definite plans will be announced shortly.

The Northwestern Mutual Life Insurance Co. has purchased for $500,000 the block bounded by Wisconsin, Mason, Cass and Van Buren Sts., and will erect a $2,000,000 home office building. No definite plans have as yet been given out. The heating and power plant will be in a separate building on the opposite side of the street. Noted last week.

MADISON, WIS.—The ANDRES STONE & MARBLE CO., of Milwaukee, has been awarded the contract for furnishing the interior marble decorations for the new south wing of the capital building at Madison. The price is $250,000.

HARLAN, IOWA.—Bids are asked until noon, May 14, for the main building for the Associated Colleges at Harlan. Brown Bros. are Archs., Security Bldg., Cedar Rapids, Iowa.

ROCHESTER, MINN.—Bids were received as follows on April 26, by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at Rochester, Minn.: Bartlett & Kling, Cedar Rapids, Iowa, $51,500; J. W. Miller, St. Paul, Minn., $48,374; Northern Construction Co., Milwaukee, Wis., $47,800; Schellin & Welse, Rochester, Minn., $65,000; John Parkhill, Rochester, Minn., $57,400.

WINONA, MINN.—The State Board of Control has awarded the contract for 3-story pressed brick and cut stone ladies' dormitory at the State Normal School at Winona to SEIDLITZ & WERNER, Winona. Cost, $40,000. C. H. Johnson is Arch., Manhattan Block, St. Paul.

KANSAS CITY, KANS.—Bids were received as follows on April 25, at the office of James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of an extension to the post-office at Kansas City, Kans.: Frank H. Latimer, Kansas City, Kan., $142,447; J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, $127,800; Carl A. Wilson, Kansas City, Mo., $132,903; Hiram Lloyd Construction Co., St. Louis, $143,444; M. P. Wells, Philadelphia, $130,620; J. H. Wiese, South Omaha, Neb., $137,315; Conners Bros. Co., Lowell, Mass., $132,700.

FREMONT, NEB.—Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., June 7, for the extension, remodeling, etc., (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Fremont, Neb.

LEAD, S. DAK.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has rejected all bids recently received for the construction of a post-office at Lead, S. Dak. The work will be readvertised.

GALVESTON, TEX.—Bids are asked until 2 p. m., May 20, by Capt. P. Whitworth, Q. M., for the construction, plumbing, heating and electric wiring of eight sets of officers' quarters, the construction of two storehouses, two shops and a fire station, all of reinforced concrete, and the construction of a coal shed, frame.

SEATTLE, WASH.—Plans for a 6-story hotel building to be erected at Maynard Ave. and King St. for Charles Krug will be completed and ready for figures soon. Cost, $90,000.

BARSTOW, CAL.—The contract to erect the reinforced-concrete depot and hotel building at Barstow for the Atchison, Topeka & Santa Fe Ry. Co. has been awarded to C. A. FELLOWS, Central Bldg., Los Angeles, at approximately $210,000. In reality three buildings will be built—the station proper, 1-story and basement, 130 × 60 ft.; the hotel, two stories and basement, 175 × 135 ft., and the recreation hall, two stories and basement, 160 × 50 ft. They will have reinforced-concrete frame, floors and roof slabs, and the outside walls will be of red paving brick with tapestry face and artificial stone trim. The roof will be of red Mission clay tile and all partitions will be of hollow tile. Baths, shower baths, bowling alleys, billiard rooms, etc., will be provided and also a power-house for heating and refrigerating plant, and also for generating electricity for lighting. Francis W. Wilson is Arch., 717½ State St., Santa Barbara, Cal.

FAIRFIELD, CAL.—We are officially advised that the Board of Supervisors of Solano County has voted to accept the general plans of E. C. Hemmings, 1005 K St., Sacramento, Cal., and W. A. Jones, 744 York St., Vallejo, for the proposed $250,000 court-

house to be located at Fairfield. The completed plans will be finished May 2 and bids will be advertised for immediately and received about June 6. The building is to be constructed entirely of granite on Greek Ionic lines of architecture. It will be fireproof and the frame will be of steel and the casings of metal. The feature of the exterior is ten stone columns, 3½ ft. in diameter and 35 ft. high. When complete the structure will cover a site 144 x 70 ft., and will be two stories high with a basement. The interior will be finished in white marble. Besides the various officials' quarters the building will contain two court rooms.

BERKELEY, CAL.—The AIKEN REINFORCED CONCRETE CO., of Los Angeles, has secured the contract for a 6-story concrete and steel University Hall building to be erected at Berkeley, Cal., for the University Hotel Co., at an amount of $210,000. McDougal Bros., 235 Montgomery St., San Francisco, Cal., are Archs.

CARL LEONARDT, Heilman Bldg., has been awarded the contract for the erection of the Orpheum Theater building on Broadway, five stories, Class A, of steel and concrete. Cost complete, $300,000. R. B. Young & Son are Archs., Lankershim Bldg., Los Angeles.

*FORT DOUGLAS (Salt Lake City post-office), UTAH.—Bids are asked until 10 a. m., May 12, by K. P. Williams, Constr. Q. M., for the construction of one single set of Hospital Corps Sergeants' quarters with plumbing, heating, electric wiring and fixtures, complete, at Fort Douglas, Utah.

WATER-SUPPLY—IRRIGATION.

(* *denotes that this work is advertised in Engineering News.*)

PORTLAND, ME.—The Trustees of the Portland Water District will soon advertise for bids for laying the new main from the lake to the city.

FORT STRONG (Boston post-office), MASS.—We are officially advised that bids were received on April 23 by Capt. A. M. Miller, Constructing Q. M., U. S. A., for remodeling the water distributing system at Fort Strong. The lowest bidder was John A. Costello, of Roxbury, Mass., at $2,345.

BOSTON, MASS.—Bids were received on April 23 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for fire protection system for buildings Nos. 58, 60, 62 and 79: Rockwood Sprinkler Co., 141 Milk St., Boston, $4,999; Evans, Almirall & Co., 281 Water St., New York, $5,764; Newport Contracting & Engineering Co., Inc., Newport News, Va., $5,448; Rhode Island Supply & Engineering Co., 156 West Exchange St., Providence, R. I., $5,397; General Fire Extinguisher Co., 79 Milk St., Boston, $5,489; Manufacturers' Automatic Sprinkler Co., 1 Liberty St., New York, $4,125; George Dellon, Inc., 329 East 116th St., New York, $6,235.

HOLYOKE, MASS.—The Board of Water Commissioners, it is reported, have awarded contract for straight pipe and special castings to the LYNCHBURG FOUNDRY CO., 220 Broadway, New York, at $25.45 per ton for pipe and 2 cts. per lb. for castings.

ROCKLAND, MASS.—Bids, including plans and specifications, are asked by the Rockland and Abington Water-Works Co., Rockland, S. W. Baker, Secy., for constructing a reinforced concrete standpipe 50 ft. in diameter and 100 ft. high on Beech Hill, Rockland.

ARLINGTON, MASS.—Bids will be received until 2:30 p. m., May 2, by the Metropolitan Water and Sewerage Board, Boston, for laying 3,780 ft. of c.-i. water pipe in Arlington. The work includes about 600 cu. yds. of rock excavation. Henry H. Sprague is Chn.

TAUNTON, MASS.—The Council has appropriated $20,000 for water-works extensions to include about 2½ miles of 6 and 8-in. mains.

SOUTH HADLEY, MASS.—On April 22 Fire District No. 2 voted in favor of constructing a water system. Estimated cost, $50,000. Fred H. Cook, of Holyoke, is Engr.

NEW BEDFORD, MASS.—The Water Board on April 11 opened bids for supplying lead service pipe: National Lead Co., $5.80 per 100 lbs. delivered; Chadwick & Boston Lead Co., $5.21; NEW BEDFORD BOILER & MACHINE CO., $5.04 (awarded contract).

NEW YORK, N. Y.—Bids are asked until 2 p. m., May 11, by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying high pressure fire service mains and appurtenances in the Gowanus and South Brooklyn districts, Boro. Brooklyn.

NEW YORK, N. Y.—See item under Buildings.

NEW YORK, N. Y.—Bids were received on April 20 for additional medical quarters, including construction, heating, plumbing and electric work at the Manhattan State Hospital, Ward's Island, New York, as follows: Hynd Brothers, 30 Church St., New York, $23,361; Charles H. Peckworth, 415 Hudson St., New York, $22,750; Thomas McKeown, Inc., 103 Park Ave., New York, $21,349; Nial Bros. Construction Co., Troy, N. Y., $24,833; A. Pasquini, 1123 Broadway, New York, $25,428; New York State Construction Co., 78 Broad St., New York, $24,977; the Wormser-Goodman Construction Co., 2 Rector St., New York, $23,940; Luke A. Burke & Sons Co., 25 West 42d St., New York, $19,019; Daniel J. Ryan, 723 Third Ave., New York, $24,758; Edmund D. Brodrick, 1382 Lexington Ave., New York, $23,600; George Hildebrand, 38 Park Row, New York, $24,754. T. E. McGarr is Secy. Comn. F. B. Ware is State Arch.

NEW YORK, N. Y.—Bids are asked until 2 p. m., May 4, by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, for excavating and removing rock in hydrant trenches and other necessary connections; for furnishing materials, repairing and restoring artificial stone sidewalks and curbing and resetting natural stone curbing.

*YONKERS, N. Y.—Bids will be received at the office of the Board of Contract and Supply, until 4 p. m., May 2, for furnishing and delivering on the public dock at Yonkers before June 15, 1910, 100 lengths of 12-in. pipe, weighing 1,100 lbs. per length, and 1,000 lengths of 6-in. pipe, weighing 430 lbs. per length, all pipes in material, dimensions, manufacture, coating, &c., to be in all respects according to the specifications for c.-i. pipe adopted by the American Water-Works Association in 1908. James V. Mahony is Secy.

BUFFALO, N. Y.—The Department of Public Works on April 19 awarded contract to the MONARCH ENGINEERING CO., 709 Chamber of Commerce, Buffalo, for installing conveyors at the pumping station, at $34,875. Francis G. Ward is Comr. Pub. Wks.

*WILLARD, N. Y.—The bids received on April 20 by the State Commission in Lunacy, Albany, for water-tower and piping for fire protection purposes, at the Willard State Hospital, Willard, were: Des Moines Bridge & Iron Co., Pittsburg, $8,775; C. W. Trumbull and George T. Ingersoll, Schenectady, N. Y., $12,800.

*PERTH AMBOY, N. J.—Bids will be received until 8.30 p. m., May 18, by the Board of Water Commissioners at the City Hall, for furnishing complete in place at pumping station, Runyon, N. J., two 200-HP. 175 lbs. steam pressure, water-tube boilers, in accordance with the standard specifications of the Hartford Steam Boiler Insurance Co. The brick work on front face of setting to be white enameled brick.

MONT ALTO, PA.—Bids will be received by the Commissioner of Health of the State of Pennsylvania, at his office in Harrisburg, until 3 p. m., May 2, for furnishing all labor and material necessary for the construction of an extension to the water-works system at the Pennsylvania State South Mountain Sanatorium, near Mont Alto, Franklin County, in accordance with the plans and specifications on file at the office of the Department of Health in Harrisburg. The work includes 10,200 ft. of 6-in. high pressure 6-in. force main; two triplex pumps directly connected to 25-HP. gasoline engines; pump house; two concrete mechanical filters with superstructure; one 300,000-gallon steel tank. The steel tank will be let under a separate contract from the rest of the work and a separate proposal will be received for same.

*FORT DUPONT (Delaware City post-office), DEL.—Bids in triplicate will be received by the Constructing Quartermaster, U. S. A., until 11 a. m., May 23, for furnishing and installing two 75-HP. water-tube boilers, one feed pump, one feed-water heater, new steam and exhaust mains, and making certain removals and changes in pumphouse, at Fort DuPont. Plans and specifications can be seen at Fort DuPont and also in the office of the Chief Quartermaster, Department of the East, Governor's Island, N. Y.

BALTIMORE, MD.—The Board of Awards on April 13 approved specifications for the station for the pipe line on South St., which, with machinery, will cost $115,000, exclusive of pumps, which have already been contracted for.

NEW MARTINSVILLE, W. VA.—The City Council on April 12 awarded contract for cementing the new reservoir on Martin Hill. There were four firms to submit bids. The contract calls for 8,333 sq. yds. of cement work. The bids were as follows: Jacovithe & Koehenline, Bridgeport, Ohio, $3.75 per sq. yd.; Cantreel Contracting Co., Parkersburg, $4.80; WILLIAM SPINDER, Wheeling, $5.45 (awarded contract); Dayton & Francis, $5.37.

MOREHEAD CITY, N. C.—The city has awarded contract to the MUNICIPAL ENGINEERING CONSTRUCTION CO., Chattanooga, Tenn., for constructing water-works; Hazlehurst & Anderson, Atlanta, Ga., are Consulting Engrs., and will have charge of construction.

EAST SPENCER (Spencer post-office), N. C.—The city has voted $25,000 of bonds for water-works and electric light plant.

ATLANTA, GA.—The Mayor on April 16 approved award of contract to J. L. LINDSAY for furnishing Keystone water meters at $7,980, and to HUNTER B. FRISCHKORN, for c.-i. pipe and special castings, brass work and valves for the Water Department, at $29,738.

RIVERSIDE, ALA.—See item under Light and Power Plants.

GADSDEN, ALA.—Bids are asked by the city until May 18 for the extension of the water-works, including the reconstruction of station building, remodeling of filter basins and addition of new one, installation of pump with crank and flywheel, having a capacity of 3,000,000 gallons of water per day, which is also capacity of new filter plant, and extension of intake out into river at least 150 ft. A bond issue for $60,000 has been authorized. Hazelhurst & Anderson are Engrs., Candler Bldg., Atlanta, Ga.

PORTSMOUTH, OHIO.—Bids have been opened for laying water pipes in Hutchins Ave., Seventh St., Offnere St., and other streets. REITZ BROS. have been awarded contract for furnishing the pipe and KELLY BROS. for excavations.

ELYRIA, OHIO.—The U. S. CAST IRON PIPE & TILE CO. has been awarded contract for furnishing the city with c.-i. pipe and hydrants at $24.70 per ton. Bids were opened on April 13.

YOUNGSTOWN, OHIO.—The WORTHINGTON METER CO. has been awarded contract for furnishing the city with 500 water meters, or less, at $6.60 each.

HANCOCK, MICH.—Bids will be received until May 2 by the Board Public Works for constructing a reinforced concrete reservoir of 1,000,000-gallons capacity. A. F. MacDonald is City Clk.

PONTIAC, MICH.—The contract for constructing a cement reservoir, bids opened on April 15, has been awarded by the city to A. J. JOHNSON, of Pontiac, at $24,205. Other bidders were: Heitsch Bros., $24,985, on one Gabriel plan and $23,976 on a second Gabriel plan; W. W. Hatch & Son, of Detroit, $24,725 on the Kahn plan and $19,375 if the city did the excavating; Slater Construction Co., $21,138 on Gabriel system and $20,974 on Kahn system, the city to do the excavating. A. J. Johnson submitted a bid for $25,290 on the Gabriel system, including excavating.

MILWAUKEE, WIS.—Contract for furnishing three tubular boilers at North Point pumping station, bids opened April 12, has been awarded to INDUSTRIAL HEATING & ENGINEERING CO., of Milwaukee, at $9,286.

CHEROKEE, IOWA.—Bids will be received until 8 p. m., May 3, by Wm. Shardlow, City Clk., for furnishing and laying 1,000 ft. of 6-in. and 1,200 ft. of 4-in. c.-i. water pipe.

MASON CITY, IOWA.—Contract for constructing water-works, bids opened on April 14, has been awarded to the DES MOINES IRON & BRIDGE CO., of Des Moines.

FORT RILEY, KAN.—Bids will be received until 10 a. m., May 18, by Capt. W. W. Whitman, Constructing Q. M., U. S. A., for furnishing material, taking up and relaying about 10,000 ft. of water pipe line; furnishing and laying about 5,000 ft. of new 6-in. c.-i. water pipe and making all connections at Maneuver Camp, Fort Riley.

JAMESTOWN, KAN.—Contract was let on April 22 by the city to LUND & CUNYAN, of Blackwell, Okla., for construction of the water-works and lighting plant from plans of Burns & McDonnell, Scarritt Bldg., Kansas City, Mo. Estimated cost, $15,000.

RUSSELL, KAN.—On April 22 the city let contract for reinforced-concrete dam to HENRY BOWMAN, of Lawrence, Kan., at $17,176. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

FARGO, N. DAK.—Bids will be received at the office of the County Auditor of Cass County, until noon, May 5, for furnishing and installing at the County Hospital and Poor Farm, pumps and all necessary fixtures to install the same, according to plans and specifications to be on file with the County Auditor at his office on and after April 15. A. G. Lewis is County Audr.

LIBBY, MONT.—See item under Light and Power Plants.

MILES CITY, MONT.—The Secretary of the Interior has awarded contract to C. H. HALL, of Sears, Mont., for necessary excavating and grading work necessary to raise dam and dike above the main canal of the Lower Yellowstone irrigation project at Burns Creek, Mont. The work involves about 7,000 cu. yds. of excavation and the contract price is $2,130.

SPRINGFIELD, MO.—The SPRINGFIELD WATER CO. has been awarded contract for supplying the St. Louis & San Francisco R. R. Co.'s new north side machine shops, all trains, all offices and depots with water for a period of ten years.

SEARCY, ARK.—Bids will be received about May 15 for the construction of water-works estimated to cost $50,000, and sewers estimated to cost $30,000. W. S. Shields, of Chicago, Ill., is Engr.

OZARK, ARK.—The city contemplates the construction of water-works and is having preliminary surveys made.

CHAPIN, TEX.—The construction of the large irrigation canal of the Valley Reservoir & Canal Co. has been started. HOCKNEY, SAMMONS & LOVETT have the contract for building the first eight miles of the canal. The canal will afford a water supply sufficient to irrigate more than 100,000 acres of land in the lower Rio Grande Valley. Lake Concepcion is to be used as a reservoir for the system. From this lake, a 2-mile cut will be made to the site of the second lift pumping plant. A cut of 15 ft. will be necessary in some places. Fred Warren, of Chapin, is Ch. Engr.

FORT SILL, OKLA.—Bids are asked until 10 a. m., May 10, by Capt. David L. Stone, Constructing Q. M., U. S. A., for water distributing system here.

*MOUNTAIN VIEW, OKLA.—Bids will be received by the town until May 4 for c.-i. pipe and specials; hydrants and valves, boilers, heater, engine, feed water pumps, generator, exciter and switchboard, series arc and tungsten street lights, pole line equipment, sewer pipe, manhole castings, siphons, cement, brick and sand, necessary for the construction of the above systems. Specifications on file with O'Neil Engineering Co., Dallas, Tex.

*STIGLER, OKLA.—Bids will be received by the town on or before May 17 for 45,000 6% 25-year water-works bonds and 30,000 6% 22-year sewer bonds. L. G. Callaway is Clk.

BIGGS, CAL.—W. M. DOTY, of Biggs, has been awarded contract for furnishing the new equipment for the city water system, consisting of galvanized steel tower, 30 ft. high, a 700-lb. bell of California manufacture, 2,000 ft. of 4-in. pipe, 1,000 ft. of 1-in. pipe, ties, valve, standpipe and hydrants.

RIVERSIDE, CAL.—The Riverside Water Co. opened bids on April 6 for laying 40,000 ft. of 30-in. water pipe. Contract has been awarded to the LACY MFG. CO., of Los Angeles, at $100,000.

WILLOW, CAL.—Bids are asked by the Sacramento Valley Irrigation Co., Willow, until May 1, for the construction of 23 miles of main canal and the construction of five miles of new ditch, this five miles being gaps in the canal which were never completed. The canal is from 35 to 55 ft. wide on the bottom, and is designed to carry six feet of water; it is to be enlarged so as to carry eight feet of water. The yardage involved is approximately 800,000 cu. yds. W. S. Kuhn is Pres.

PHOENIX, ARIZ.—The Secretary of the Interior has authorized the execution of a contract between the United States and the MESA CANAL CO., in connection with the Salt River project, Arizona. The Mesa Canal is on the south side of the Salt River, and within the bounds of the Government irrigation project. It is proposed to p[ay] the system of the Mesa Canal Co. [$43,000] the amount to be credited to the [individual] shareholders as applicants for [Government] water rights on the amounts asse[ssed] against their lands to repay the cost [of the Salt] River project. The purchase pri[ce is based] on the estimated cost of actually [operating] the work.

HAILEY, IDAHO.—The Secret[ary] of the Interior has awarded contract to [GEN]ERAL ELECTRIC CO., of Los An[geles, Cal.,] for furnishing electrical equipmen[t for sub]stations under the Minidoka irrig[ation pro]ject, Idaho. The contract price is [not] stated.

IDAHO FALLS, IDAHO.—The [citizens] have voted $95,000 of bonds for [water]works and power station. L. [C. Kelsey,] Dooly Bldg., Salt Lake City, Utah. [Engr.]

SEWERAGE.

(* *denotes that this work is advertised in Engineering News.*)

HARTFORD, CONN.—Contract for [con]structing 3,800 lin. ft. of sewer [in the] Homestead Ave. system, bids for [which] were opened on April 11, has been [awarded] by the Board of Contract and Supply [to the] RYAN-UMACK CO., New Haven, at $2,033. List of bidders noted on April 14.

WATERBURY, CONN.—Bids for the [con]struction of storm water drains in [Willcott,] Howard and Oak Sts. will be received [by] the Board of Public Works until 8 [p. m.,] May 3. R. A. Cairns is City Engr.

ALBANY, N. Y.—See item under [Streets] and Roads.

BROOKLYN, N. Y.—Bids are asked by Alfred E. Steers, Pres. Boro. of Brooklyn, until 11 a. m., May 4, for furnishing material and constructing sewers in various streets.

LONG ISLAND CITY (L. I.), N. Y.—Bids are asked by Lawrence Gresser, Pres. Boro. of Queens, until 11 a. m., May 5, for constructing sewers and receiving basins and appurtenances in various streets.

NEW YORK, N. Y.—Bids are asked by Cyrus C. Miller, Pres. Boro. of The Bronx, until 11 a. m., May 5, for constructing sewers and appurtenances in various streets.

NEW YORK, N. Y.—Bids are asked by the President of Manhattan Borough until 11 a. m., May 5, for furnishing all the labor and material required for outlet sewer and appurtenances, from Haven Ave. to Riverside Drive, and sewers in Haven Ave., from Fort Washington Ave. to the summit north of 171st St., and in 169th and 170th Sts., between Fort Washington and Haven Aves.; and for furnishing and delivering 100 c.-i. manhole heads, 400 c.-i. manhole covers, 150 c.-i. flat basin grate bars (corners), 50 c.-i. herringbone grate bars (side); 100 c.-i. heads and plates, 75 asphalt covers (3-in.), 100 asphalt covers, flanged.

NEW YORK, N. Y.—One bid was received, as follows, on April 20, by the President of the Borough of Manhattan, for furnishing all labor and materials required for repairs to sewer and appurtenances in 110th St. and Manhattan Ave.: Joseph Moore, 5 East 42d St., New York, $8,000.

COMSTOCK, N. Y.—Bids will be received by C. V. Collins, Supt. State Prisons, Albany, until noon, April 29, for sewage disposal system at the Great Meadow prison, Comstock. The bids received for this work on April 5 were rejected on account of certain informalities in bidding. F. B. Ware is State Arch. List of bidders noted on April 14.

YONKERS, N. Y.—Bids are asked until 4 p. m., May 2, by the Board of Contract and Supply for constructing a sewer in Park Ave., from Roberts Ave. northerly 638 ft.

*MAMARONECK, N. Y.—The DECICCO CONTRACTING CO., Larchmont, N. Y., has been awarded contract for the construction of about 4,525 lin. ft. of sewers. Bids were opened April 6 by the Board of Trustees.

*NEWARK, N. J.—The Essex County Park Commission has awarded contract for the Park Ave. drainage sewer to LAFFERTY & WEIR, 723 Lexington Ave., New York, at $20,747. Bids were opened on April 5.

CHATHAM, N. J.—We are officially advised that bids were received as follows on April 23 by the Borough Council for furnishing material and constructing about seven miles of vitrified pipe sewers, 8 to 15-in. diameter, with Y branches, manholes, flush tanks and other appurtenances: Clyde Potts, 30 Church St., New York, is Engr. CLARKE & CO., Morristown, N. J., $36,458 (awarded contract); Garifano & Mozzano, Summit, N. J., $36,949; Hudson Terminal Construction Co., New York, $37,443; Louis Jacques, Elizabeth, N. J., $37,542; Antonia Costa, Orange, N. J., $39,732; Fusco Construction Co., Montclair, N. J., $42,192; Westmoreland Construction Co., Greensburg, Pa., $42,244; Harrison Construction Co., Newark, N. J., $44,220; Joseph Puglia, Paterson, N. J., $45,985; Charles Ippolito, Orange, N. J., $46,144; John MacNabb, Bound Brook, N. J., $47,240; Ludwig Bott, South Orange, N. J., $50,912; Pasquale & Maurellio, Orange, N. J., $56,786; F. W. Abbot Co., New York, $57,737; Pasquale Cestone, Montclair, $59,940.

BELMAR, N. J.—Bids are asked until 7.30 p. m., May 3, by the Borough Council for constructing sewage disposal works. Plans may be seen and specifications and forms of proposal obtained at the office of Charles O. Hudnut, Borough Clk., or at the office of Clyde Potts, Engr., 30 Church St., New York.

ARNOLD, PA.—The lowest bid opened on April 6 by the Borough for constructing the sewer in 14th St. was that of F. M. Roessing, 601 Ferguson Bldg., Pittsburg, at $12,311. A. B. Campbell is Boro. Engr.

HARRISBURG, PA.—Bids are asked until noon, April 29, by the Highway Department for the construction of a sewer in Swatara St. W. W. Caldwell is Comr.

RIVERSIDE, ALA.—See item under Light and Power Plants.

PARK R. STATION (Knoxville post-office), TENN.—The city has awarded contract to AHLER & CO., Knoxville, Tenn., for constructing the Third Ward sewer, consisting of 9,500 lin. ft. of 8-in. sewer main and 10,000-gallon sewage disposal plant complete. Bids were opened April 11. William H. Gaw is City Engr.

MEMPHIS, TENN.—Bids will be received by Edwin M. Douglass, City Clk., until May 3 for furnishing material and constructing 3 terra cotta pipe sewers in Klondyke and Memphington districts. J. H. Weatherford is City Engr.

LOUISVILLE, KY.—JAMES FERRY & SON, Pittsburg, Pa., have been awarded contract by the Commissioners of Sewerage for the construction of Section A of the Fraser Ave. sewer, Contract 63. Estimated cost, $75,000. J. B. F. Breed is Ch. Engr.

LOUISVILLE, KY.—Bids were opened on April 8 by the Commissioners of Sewerage for Contract 62, Brook St. sewer. Contract has been awarded to C. T. McCRACKEN & Bro., of Columbus, Ohio, at the following prices: 5,200 lin. ft. earth excavation, $0.20; 50 and 90 cu. yds. earth excavation, $2; 5,000 cu. yds. rock excavation, $8; 5,000 cu. yds. concrete masonry, $9; 8 cu. yds. brick masonry, $15; 70 sq. yds. vitrified brick paving, $3; 512,000 lbs. plain steel, 3.5 cts.; 405,000 lbs. deformed steel, 3.5 cts.; 50 cu. yds. excavation below masonry, $3.50; 50 cu. yds. gravel refill, $3.50; vitrified pipe, 5,200 lin. ft. pipe to lay, 50 cts.; 1,000 lin. ft. 8-in. underdrain, 20 cts.; cleaning up, $250. Total, $102,643. Other bids were: J. Connelly Construction Co., Cleveland, $131,546; M. J. Millner & Sons Co., Louisville, $158,159; American Engineering & Construction Co., Chicago, Ill., $179,399; Henry Bickel Co., Louisville, $206,777.

CINCINNATI, OHIO.—Bids will be received until April 28 by the Board of Public Service, John J. Wenner, Clk., for furnishing material and constructing main and lateral sewer drains, with their appurtenances, in the ravine west of Burnett Ave.

LORAIN, OHIO.—Bids were opened at the office of the City Engineer on April 16 for the construction of a storm water sewer in Colorado Ave., East Erie Ave., Connecticut Ave. and A St. There were four bidders, the Ohio Engineering Co., Harry Baxter, Shaw & Crisp and W. A. McDowell. The Ohio Engineering Co. was low on concrete construction and Harry Baxter on brick. The price for the former is $9,906 and for the latter, $10,125.

HAMILTON, OHIO.—The Board of Control on April 16 awarded contract for the Third Ward sanitary sewer system to W. H. LOUTHAN at $11,066.

SEBRING, OHIO.—Bids were opened on April 20 by the city for the construction of the sewage disposal plant. John Skeeles, of Canton, Ohio, was the lowest of three bidders.

YOUNGSTOWN, OHIO.—Bids are asked by the Director of Public Service until noon, May 6, for the construction of sewer in a portion of Cypress St. W. H. McMillen is Clk.

ELYRIA, OHIO.—Bids are asked until noon, May 4, by the Director of Public Service for the construction of a sewer in William St., from East Broad St. to Buckeye St. Rose Moriarty is Clk.

CLEVELAND HEIGHTS, OHIO.—Bids are asked by H. H. Canfield, Village Clk., 306 Beckman Bldg., Cleveland, until noon, May 24, for constructing a sewer in a portion of Cedar Road.

COLUMBUS, OHIO.—See item under Streets and Roads.

DETROIT, MICH.—The lowest bid opened on April 7 at the office of the Commissioner of Public Works for constructing Fairview sewers and pumping station was submitted by the Carey Construction Co., at $135,520.

CANTON, ILL.—E. R. HARDING & CO., Racine, Wis., have been awarded the contract for the sewer extensions here at $50,000.

NORTH CHICAGO, ILL.—Bids are asked by the Bureau of Navigation, Navy Dept., Washington, D. C., until noon, May 11, for grading at the site of the sewage disposal plant at the naval training station, Great Lakes, North Chicago.

CORYDON, IOWA.—See item under Water Supply—Irrigation.

MINNEAPOLIS, MINN.—The following bids, it is reported, have been received for the city sewer pipe contract for the year: Red Wing Sewer Pipe Co., $62,779; Blackmar & Post Co., St. Louis, Mo., $64,552; Evans & Howard, St. Louis, $66,198.

ALBERT LEA, MINN.—All bids for the construction of the sewer, opened on April 15, were rejected and new bids are asked until May 5.

HUMBOLDT, KAN.—We are officially advised that the J. S. Worley Co., Reliance Bldg., Kansas City, Mo., has been employed to prepare plans and specifications for a system of sewers and sewage purification plant. Estimated cost, between $75,000 and $80,000. Only a part of this system will be built this summer.

MANDAN, N. DAK.—Bids will be received by Lee Nichols, City Audr., until May 9 for the construction of a sewer system. The work and materials include approximately: 24-in. vitrified pipe, in place, 5,300 ft.; 18-in. vitrified pipe, in place, 2,445 ft.; 12-in. vitrified pipe, in place, 11,400 ft.; 10-in. vitrified pipe, in place, 5,200 ft.; 8-in. vitrified pipe, in place, 700 ft.; 6-in. vitrified pipe, in place, 300 ft.; brick catch basins, in place, eight; brick manholes, in place, 83; pumping pit and building for motor in place, one; 24-in. single-gate valve, in place, one; 12-in. single-gate valve, in place, one; centrifugal pump with 12-in. intake, 10-in. discharge, in place, one; 15-KW. motor, in place, one. E. M. Wickham, of Grand Forks, is Engr.

WHITEFISH, MONT.—The citizens have voted to issue $10,000 of bonds for the construction of a sewer system.

KIRKSVILLE, MO.—Bids will be received until May 2 by J. C. Crothers, City Clk., for a joint district storm sewer in joint sewer district No. 1.

*ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements, Maxine Reber, Pres., until noon, May 17, for the construction of Baden public sewer.

Bids are asked until noon, May 24, by the Board of Public Improvements for construction of South Harlem Joint District sewer.

Bids are asked until noon, May 31, by the Board of Public Improvements for South Harlam Joint District sewer, second section.

For details of above lettings see advertisement in this issue.

BELTON, TEX.—The Board of Directors of the Belton Sewer Co. will receive bids in about 60 days for the construction of the proposed sewer system. Estimated cost, $30,000. Fountain-Shaw Engineering Co., of Dallas, are Engrs.

*STIGLER, OKLA.—See item under Water Supply—Irrigation.

BLAINE, WASH.—See item under Streets and Roads.

WESTMOUNT, QUE.—See item under Streets and Roads.

BRANTFORD, ONT.—We are officially advised that the LOCK JOINT PIPE CO., 165 Broadway, New York, has been awarded contract by the city for supplying 7,000 ft. of pipe ranging in sizes from 30-in. to 45-in.

*TORONTO, ONT.—Contracts for the balance of the construction of the high level intercepter, in connection with the trunk sewer, from the west bank of the Don River to the sewage disposal tanks, were awarded by the Board of Control on April 20. The high-level section of the main drainage system is that section north of Adelaide St., which will work by gravitation. The low-level section is south of Adelaide St. to the bay, where pumps will be employed. The contracts awarded do not include those for siphons, these being referred to C. H. Rust, City Engr. Following are the contracts awarded: Section No. 1, Logan Ave. to Leslie St., 3,409 ft. in length, sewers 9 ft. and 9 ft. 3 ins., to JOHN WAGNER, Cleveland, Ohio, at $31.52 per ft. Section No. 2, from the Don River to Logan Ave., 2,993 ft. in length, sewer 8 ft. 9 ins., to J. H. McKNIGHT CONSTRUCTION CO., of Toronto, at $30.85 per ft. Section No. 7, Leslie St. to Morley Ave., 3,246 ft. in length, sewer 9 ft. 6 ins., to W. J. GAWNE, Cleveland, at $23.70 per ft. Section No. 8, Morley Ave. to the disposal tanks, 1,216 ft. in length, sewer 7 ft. 10 ins., to WILLIAM LAYMAN, NICHOLSON & JOHN, Cleveland, at $19.35 per ft.

RYAN & REILLY, of Philadelphia, Pa., were awarded the contract on April 21 for the construction of the siphon under the Don River in connection with the high-level intercepting sewer by the Board of Control, at $46,000. The siphon is needed to carry the trunk sewer under the bed of the Don River, as the sewer is higher than the bed of the river.

BRANTFORD, ONT.—JAMES REID has been awarded contract for furnishing and laying 2,180 ft. of 12-in. extra strength sewer pipe and 705 ft. of 12-in. c.-i. pipe, together with twelve manholes; grates cut 31 ft.; average cut, 16½ ft., at $16,647.

JUAREZ, MEX.—Contract for the construction of nine miles of sewers in the city has been awarded to the COMPANIA BANCARIA DE FOMENTO DE BIENES RAICES, S. A., of Mexico City. The contract also includes the installation of two large pumping stations which are to be operated by electricity. George Watson will have charge of the work.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids are asked until noon, May 5, by William H. Edwards, Comr. of Street Cleaning, for furnishing and delivering 40 watering trucks, 10 to be delivered in the Borough of Manhattan and 30 to be delivered in the Borough of Brooklyn.

McKEESPORT, PA.—The Board of Health has awarded contract for the erection of a new chamber to the city garbage furnace to W. K. HERBERT, at $3,000.

*ABERDEEN, WASH.—Bids will be received by P. F. Clark, City Clk., until 5 p. m., May 18, for one incinerator capable of taking care of 25 tons of garbage in one day; parties to submit their own plans and specifications.

VANCOUVER, B. C.—Bids will be received by W. McQueen, City Clk., until 3 p. m., May 31, for the installation of a garbage destructor plant at the Bridge St. yard on the south side of False Creek. The plant must be capable of destroying not less than 70 tons of mixed garbage per day of 24 hours. Bidders will be required to submit plans and specifications with their proposals, and furnish a satisfactory bond and guarantee that the destructor will fulfill all the provisions of the specifications. The price is to include the erection of the stack and all necessary buildings.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

BOSCAWEN, N. H.—The contract for grading and surfacing with native stone about 3 1-3 miles of Merrimack Valley Road is stated awarded by H. C. Hill, State Engr., at Concord, to FRED E. ELLIS, of Melrose, Mass., at $19,350.

SWANZEY, N. H.—We are officially advised that bids were received on April 22 by H. C. Hill, State Engr., Concord, N. H., for four miles of macadam road in Swanzey. The contract has been let to the LANE CONSTRUCTION CORPORATION, of Meriden, Conn.

PEMBROKE, N. H.—We are officially advised that bids were received on April 8, by Harry C. Hill, State Engr., Concord, N. H., for about 3,850 ft. of macadam. The contract has been let to MARTIN & CONDON, 87 Palfrey St., Watertown, Mass.

BECKET, MASS.—The State Highway Commission, at Boston, has awarded the contract for constructing 9,200 ft. of state highway in Becket to the LANE CONSTRUCTION CORPORATION, of Meriden, Conn., at $6,850.

FALL RIVER, MASS.—The following bids have been received for furnishing the Superintendent of Street Department with 250,000 regular size block and 50,000 blocks of narrower width. The bids for regular width were: 100,000 blocks, Henry Savoie, $68.75 per M; for 100,000 blocks, Cote & Desroisiers, $67.90 per M; for the whole 250,000 blocks, Willard M. Pettey, $71.90 per M; for the whole 250,000 blocks, Rockport Granite Co., of Rockport, Mass., $72 per M, alongside the dock. The bids for furnishing narrow width were: Rockport Granite Co., Rockport, Mass., $72 per M for the whole lot delivered alongside the dock; Willard M. Pettey, $74.90 per M for 50,000 blocks; Henry Savoie, $78 per M for 50,000 blocks; Rhode Island Granite Co., Westerly, R. I., $70 per M; Cote & Desroisiers, $75 per M for 25,000 blocks; George Ross, $80 per M for 10,000 blocks.

HARTFORD, CONN.—Bids for the construction of state road work were received at the office of the State Highway Commissioner, Capitol, on April 22 as follows:

Town of Old Saybrook, 13,023 lin. ft. of macadam, including one 15-in. tile on the Fenwick Road, Lane Construction Corporation, Meriden, Conn., $1.44 per lin. ft. for macadam and $2.19 per lin. ft. for telford; A. Brazos & Sons, Middletown, Conn., $1.34 and $2.14; O. T. Benedict, Pittsfield, Mass., $1.49 and $2.49; Roger Kennedy, Middletown, $1.42 and $2.25; A. C. Sternberg & Son, West Hartford, Conn., $1.39 and $2.39; Pierson Engineering & Constructing Co., Bristol, Conn., $1.47 and $2.50.

Town of Ledyard, 1,850 lin. ft. grading, including one 24-in. tile culvert, on the River Road, Edward McKnight, Westerly, R. I., $3,400; O. T. Benedict, Pittsfield, Mass., $2,800. 3,350 lin. ft. grading, including four 20-in. and one 15-in. tile culverts, on the Ledyard Center Road, O. T. Benedict, $8,500; Edward McKnight, $9,240. 3,900 lin. ft. grading, including one 15-in. tile culvert, on the Shewville Road, Edward McKnight, $7,000; O. T. Benedict, $7,500.

Town of Mansfield, 3,050 lin. ft. gravel on the Spring Hill Road, A. C. Sternberg & Sons, West Hartford, Conn., $4.13 per lin. ft. for gravel, $5.00 for telford, $1 per lin. ft. for rubble drain. There were no bidders on the other two sections of road in this town.

HARTFORD, CONN.—The contract for relaying sheet asphalt on Main St. has been awarded to SOUTHERN NEW ENGLAND PAVING CO., 26 State St., at $1.59 per sq. yd. Bids were received on April 11 by the Board of Contract and Supply, Joseph Buttis, Secy.

LOCKPORT, N. Y.—The contract for paving Market St. with Medina sandstone block, about 5,840 sq. yds., has been awarded to C. N. STAINTHORPE & CO., at $17,500.

BUFFALO, N. Y.—Bids will be received until May 4 by the Department of Public Works, F. G. Ward, Comr., for paving Krupp, Brownell and Buffum Sts. and repaving Ellicott St. and North Parade Ave.

POUGHKEEPSIE, N. Y.—The CROSSET & LLOYD CONCRETE CO., of Binghamton, N. Y., has secured the contract for paving Main St., at $18,210.

NEW YORK, N. Y.—Bids are asked by Cyrus C. Miller, Pres. Boro. of the Bronx, until 11 a. m., May 5, for paving with sheet asphalt, asphalt blocks and wood blocks, various streets in the Bronx.

Bids are asked until 11 a. m., May 4, by Lawrence Gresser, Pres. Boro. of Queens, for regulating, grading and paving various streets in the Boro. of Queens.

Bids are asked until 11 a. m., May 11, by Alfred E. Steers, Pres. Boro. of Brooklyn, for grading and paving various streets in Brooklyn.

Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, May 10, for furnishing and delivering broken stone and screenings at various stations in the Borough of Richmond.

NEW YORK, N. Y.—Bids are asked until 3 p. m., May 12, by the Park Board, for furnishing and delivering Hudson River road gravel in parks and on parkways in the Boroughs of Brooklyn and Queens. Also for repairing asphalt pavement (on a concrete foundation) in the roadway of Glenmore Ave., Eastern Parkway Extension, Stone Ave., and repairing asphalt block pavement on Bushwick Ave., between Eastern Parkway Extension and Jamaica Ave., together with all the work incidental thereto.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply, Albany, until 3 p. m., May 2, for two street flushing machines; also, for the improvement of Schuyler St., from the east line of Green St. to the west line of Dallius St., the carriage way to be paved with vitrified paving blocks; and for the construction of vitrified stoneware pipe sewers in Erie, South and Main Sts. Walter Melius is City Engr.; Isidore Wachsman is Secy. of the Board.

We are officially advised that the contract has been let for the Casper Creek-Wappinger Falls State Road No. 5050, Dutchess County, 2.11 miles (on residuum). The bids received on April 8 were as follows: John E. Consaulus, Kingston, $27,800; Lane Construction Co., Meriden, Conn., $29,700; Ryan & Yale, Brewsters, $27,200; JAMES E. MARTIN, Poughkeepsie, $24,984 (awarded contract); Copans & Gross, Newburgh, $28,989; Samuel Beskins, Fishkill-on-Hudson, N. Y., $28,142; H. J. Mullen, Jamaica, N. Y., $30,000.

Bids will be received until May 6 by the State Commission of Highways, Albany, S. Percy Hooker, Chn., for improving the Goldens Bridge-Turk's Hill Road, No. 770, 3.85 miles, in the town of Lewisboro, Westchester County. Spencer J. Stewart is Div. Engr., Columbus Hall, Poughkeepsie.

NEWTON, N. J.—Bids will be received by the Board of Freeholders until May 12 for grading and macadamizing a public road or section of public road in township of Sandyston, Sussex County. A. H. Konkle, County Engr.; Loren T. Cole is Dir.

PATERSON, N. J.—Bids will be received until May 17 by the Board of Public Works for paving with asphalt, asphaltic macadam, wood block and Medina block on Park Ave., 21,000 sq. yds.; River St., 5,000 sq. yds., and Mill St., 2,000 sq. yds. H. J. Harden is City Engr.

FORT LEE, N. J.—The following bids were received by the Borough Council on April 13, for laying cement sidewalks and curbing certain streets in the Palisade Section: ANDREW E. FOYE, 20 Broad St., New York, $21,268 (awarded contract); Vanderbough Construction Co., 30 Church St., New York, $24,883; Nicoli Scioli, Grantwood, N. J., $24,444; Commonwealth Roofing Co., Grove St., Jersey City, N. J., $26,292; Geo. M. Brewster Construction Co., Tenafly, N. J., $28,652; Edward English, Englewood, N. J., $26,185; Fusco Construction Co., Newark, N. J., $27,056; Cement Paving & Construction Co., 1 Montgomery St., Jersey City, N. J., $24,195.

SCRANTON, PA.—Bids will be received by Henry Jifkins, 1014 Mears Bldg., Scranton, until May 2 for grading, sewering and sidewalking a plot of building lots.

MOUNT CARMEL, PA.—Bids are asked until 7.30 p. m., May 2, by the Borough Council for paving a portion of Third St., from Oak St. to the borough line. John Caarl, Jr., is Town Clerk.

BALTIMORE, MD.—Bids are asked until noon, May 3, by the Trustees of the Estate of Chauncey Brooks, 24 Commerce St., Baltimore, Md., for grading, paving and curbing Brooks Lane and Chauncey Ave., from Eutaw St. to Linden Ave., and Linden Ave., from south line of Cloverdale to alley north of Brooks Lane.

MOUNT SAVAGE, MD.—Bids are asked by the Road Directors of Allegany County, Mount Savage, Md., until noon, May 4, for improving the public highway between Narrows and Corriganville, known as the Corriganville Road, Section 1. Clinton Uhl is Chn.

WASHINGTON, D. C.—Bids were received on April 14 by the Commissioners of the District of Columbia, Washington, D. C., for grading on F St., between Second and Third Sts. N. W., as follows: J. H. Fisher, Washington, 57 cts. per cu. yd.; George Hyman, Washington, 64 cts.; Holton Construction Co., Washington, 69 cts.; R. E. Boiseau, Washington, 95 cts.; E. G. Gummel, Washington, 55 cts.; E. M. Bradley, Washington, 66 cts.

WASHINGTON, D. C.—Bids were received as follows on April 26, by the Commissioners of the District of Columbia, for furnishing (a) 6 × 20-in. bluestone or granite curbing; (b) 8 × 8-in. curbing; (c) paving or repaving cobble or granite blocks; (d) paving vitrified block gutters on gravel base; (e) laying asphaltic macadam pavement: Cranford Paving Co., 2629 E St., N. Y., Washington, (a) 27 cts., (b) 35 cts., (c) 38 cts., (d) 78 cts., (e) 93 cts.; Atlantic Bitulithic Co., Richmond, Va., (a) 25 cts., (b) 32 cts., (c) 40 cts., (d) 85 cts., (e) $1.21; Barbar Asphalt Paving Co., Land Title Bldg., Philadelphia, (a) 30 cts., (b) 39 cts., (c) 40 cts., (d) 77 cts., (e) $1.20.

MARTINSVILLE, VA.—Bids will be received until May 5 by the Supervisors of Henry County at Martinsville for three miles of macadam road.

*WASHINGTON, N. C.—Bids will be received by the Board of Improvements until 7 p. m., May 12, for grading, curbing, guttering and for bituminous macadam or brick pavement, catch basins and cement sidewalks on East Main, East Second and other streets. D. B. Packard is City Engr.

RALEIGH, N. C.—Bids have been received as follows for 27,500 yds. of paving on 4-in. foundation of cement concrete: William F. Bowe, Bessemer block paving, $26,375; William F. Bowe, wood block, $64,350; Southern Paving & Construction Co., asphalt, $59,125; R. H. Richardson & Son, Peebles brick, $61,187; Barber Asphalt Paving Co., $55,825; Atlantic Bitulithic Co., bitulithic, $55,000; Julius Frederick Co., asphalt, $62,975; Peter Bros. Paving Co., asphalt, $46,750.

JACKSONVILLE, FLA.—Bids will be received until May 2 by the Board of Public Works for grading and laying hexagonal tile sidewalks with concrete curbing in various streets. Philip Prioleau is City Engr.; H. A. Aird is Chn.

NEW ORLEANS, LA.—The following bids were received on April 4 by Charles R. Kennedy, City Comptroller, for paving with granitoid concrete block pavement on portion of Palmyra St.: Egan Bros., $80,275; Standard Paving & Construction Co., $80,412, and Rudolph S. Blome Co., $89,744; bids for the construction of sidewalks and installation of subsurface drainage, curbs and gutters in connection with the paving of Palmyra St., as follows: Bancroft & Ross, $79,017; Jos. A. Craven & Co., $79,219; Barber Asphalt Co., $83,285; Brock & Egan, $88,227; Etta Construction Co., $101,431.

MEMPHIS, TENN.—R. Brinkley Snowden has contracted with the SOUTHERN BITULITHIC CO., First National Bank Bldg., Nashville, Tenn., for 20,000 sq. yds. bitulithic pavement.

YOUNGSTOWN, OHIO.—The contract for improvement of Glenwood Ave. with brick has been awarded to CHAMBERS HEASLEY, of Youngstown, at $10,837. The contract for the improvement of Rosemont Road was awarded to KANE & CUMISKY, at $14,092.

MARIETTA, OHIO.—Contracts for paving Fifth, Warren, Sacre Via, and St. Clair Sts. have been awarded to CISLER & MORSE, at $47,234. The paving is to be done with Marietta block.

BELLEFONTAINE, OHIO.—We are officially advised that bids were received by the Department of Public Service on April 15, for grading, curbing, macadamizing and paving Elm St. Clair A. Inskup is City Engr. The contract has been let to THEODORE W. HILL, of Bellefontaine, at $9,323. Paul O. Batch is Clerk, Bd. of Control.

ELYRIA, OHIO.—Bids will be received at the office of the Commissioners of Road District No. 1, Lorain County, Masonic Temple Bldg., Elyria, Ohio, until noon, May 4, for improving the Sugar Ridge road, about one mile.

JEFFERSON, OHIO.—On April 19 the County Commissioners received bids on macadam roads as follows: Orwell Section 1—Walter Clifford, $10,272; Chinnock Bros., $9,742; J. S. Woodrow, $10,879; R. P. Burnett, $12,694. No award.

Orwell Section 2—R. P. Burnett, $13,770; W. F. Clifford, $11,883; CHINNOCK BROS., $10,816 (awarded contract); J. S. Woodrow, $11,439.

Colebrook Road No. 2—R. P. Burnett, $15,-135; Chinnock Bros., $14,013; Wade & Nims, $11,899; J. S. Woodrow, $13,936. No award.

Rome-New Lyme, No. 2—R. P. Burnett, $20,180; Chinnock Bros., $20,180; Bowman & Pritchard, $21,757; Oatley & Griffin, $24,-123; J. S. Woodrow, $19,636; W. F. Clifford, $19,894. No award.

DAYTON, OHIO.—The Director of Public Service has awarded the following contracts for street paving, which awards have been approved by the Board of Control: Hickory St., from Warren to Morton, asphalt, to the PETERS BROS. PAVING CO., $4,736; Hickory, from Morton to Wayne, asphalt, to the PETERS BROS. PAVING CO., $9,552; Newcomb, from Pritz to Linden, Nelsonville brick, to JOHN WROE, $1,793; Linden, from present paving to Lot 25,327, Nelsonville brick, to JOHN WROE, $17,242; Lehman, from Main to Forest, Trimble brick, to J. E. CONLEY CO., $15,389; Dutoit, from Third to Fifth, Nelsonville brick, to W. J. KERNAN, $8,633.

AKRON, OHIO.—Bids are asked by the Board of Control until noon, May 4, for grading, draining, curbing, paving and improving Mill St., from Howard St. to Summit St.; Washington St., from 400 ft. south of Exchange St. to Voris St.; West Buchtel Ave., from Bowery St. to Center St.; Edgewood Ave., from Maple St. to Wooster Ave.; Glenwood Ave., from Howard St. to east corporation line.

CLEVELAND, OHIO.—Bids will be received by the Board of County Commissioners of Cuyahoga County, Ohio, at its office in the Court-House in Cleveland, Ohio, until 11 a. m., May 4, for furnishing material for the repair of West Madison Ave., South Woodland Road and Wooster Road. John F. Goldenbogen is Clerk.

COLUMBUS, OHIO.—Bids will be received by H. S. Holton, Dir. of Pub. Service, of Columbus, until May 3, for the following improvements: Donaldson St., from Washington Ave. to Parsons Ave., grading and paving with brick; alley east of Hoffman Ave., from Oak St. to Capital St., grading and paving with brick; Hoover St., from Hamilton Ave. to St. Clair Ave., grading and paving with brick; Heyl Ave., from Columbus St. to Reinhard Ave., grading and paving with brick; Jackson St., from Lazell St. to Sixth St., grading and paving with brick; Monroe Ave., from Main St. to Mound St., grading and paving with brick; Nicholas St., from Livingston Ave. to Raymond St., grading and paving with brick; Ohio Ave., from Livingston Ave. to Schiller St., grading and paving with asphalt. At the same date bids will be received for constructing a sewer in the alley north of Sullivan Ave., from Whitehorne Ave. to the alley north of Belvidere Ave.

Bids are asked by the County Commissioners of Franklin County until May 10 to improve the Hess Pike from the east end of Bethel Pike to the Union Cemetery, thence westerly to the Dublin Pike, a distance of 7.2 miles with crushed limestone. Hugh K. Lindlay is County Surv.

Bids are asked by the Board of County Commissioners of Franklin County until noon, May 11, for the improvement of the James T. Lazell Joint County Road on the line between Franklin and Delaware Counties (distance of 3,705 ft.) with crushed limestone. Also for macadamizing and surfacing West Goodale St., from the Olentangy River to Marble Cliff (a distance of 7,420 ft.). Hugh K. Lindlay is County Surv.

COLUMBUS, OHIO.—Contracts for paving streets have been awarded by H. S. Holton, Dir. of Pub. Service of Columbus, as follows: Alley north of Bryden Road, Parsons Ave. to 18th St., Nelsonville block, JOHN C. BEASLEY, $4,316; Engler St., from Fourth to Seventh Sts., Athens block, GEIGLE, GARNES & CO., $6,971; Germania St., from Jaeger to Parsons, Trimble block, WILLIAM M. GRAHAM, $13,819; Gates St., from Mogart St. to Parsons Ave., brick, JOHN C. BEASLEY, $16,300; Jaeger St., from Deshler Ave. to Hanford Ave., Athens block, GEIGLE, GARNES & CO., $8,156; Norwick Ave., from Neil Ave. to Lot 19, grading only, H. E. BARTHMAN, $1,563; Noble St., from Fifth St. to Washington Ave., GEIGLE, GARNES & CO., Athens block, $10,310; Studer Ave., from Columbus St. to Schiller St., Peebles block, WILLIAM M. GRAHAM, $7,-583; Schiller St., from 17th St. to Lockbourne Ave., not awarded because of the extension of the street car tracks; 25th St., from Bryden Road to Rich St., Nelsonville block, GEIGLE, GARNES & CO., $2,552.

CANTON, OHIO.—Bids will be received until May 2 by the Board of County Commissioners at Canton for draining, grading and paving with brick 1.55 miles of road in Tuscarawas Township. Estimated cost, $34,357.

CARDINGTON, OHIO.—The contract for the improvement of the Westfield Pike has been awarded to BRADY, O'CONNELL & MALLOY, of Marion, at $5,878. The bids were received last fall.

KOKOMO, IND.—We are officially advised that bids were received by the Commissioners of Howard County on April 15, for the construction of a certain free gravel or stone road in Center Township, known as the Dixon Road. A. B. Esterling is County Audr. The contract has been let to H. H. STEWART, of Kokomo, Ind., at $6,766.

WABASH, IND.—The Commissioners of Wabash County have granted petitions for the construction of five gravel roads. Bids will be advertised for as soon as the surveys can be completed.

PLYMOUTH, IND.—Bids are asked by the Commissioners of Marshall County until May 15 for the construction of 24,230 ft. of gravel roads in Walnut Township.

VERSAILLES, IND.—The Commissioners of Ripley County are asking for bids for the construction of 4,022 ft. of macadamized road in Laughery Township. Nicholas Voltz is County Audr.

WILLIAMSPORT, IND.—The Commissioners of Warren County have let a contract for the construction of 15,817 ft. of gravel road to CONOVER & TABER, at $12,545.

DELPHI, IND.—The Commissioners of Carroll County have let a contract for the construction of three gravel roads to J. C. O'CONNOR, at $3,595, $5,373 and $5,642, respectively.

GRAND RAPIDS, MICH.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., May 27, for sidewalks, etc., at the U. S. post-office and court-house, Grand Rapids.

CARPENTER & ANDERSON have secured contracts for street improvements as follows: Grading and resurfacing East Fulton St., $11,064, and grading and paving Lake Ave., $7,657.

COLDWATER, MICH.—We are officially advised that the city of Coldwater has approved plans for the construction of 6,000 sq. yds. of brick paving and 2,900 lin. ft. of combined curb and gutter. Estimated cost, $11,360. The city probably will do the work by day labor. Ezra C. Shoecraft is City Engr.

DETROIT, MICH.—The Common Council of Detroit has directed the Department of Public Works, J. J. Haarer, Comr., City Hall, to advertise for proposals for paving the following streets: Chicago Boulevard, from John R. St. to Oakland Ave., with sheet asphalt, estimated cost $29,054; Hilger Ave., from Jefferson to Kercheval, with cedar block, estimated cost, $5,934; Iroquois St., from St. Paul to Kercheval, with cedar block, estimated cost, $5,327; Waterloo St., from East Grand Boulevard to Field Ave., with cedar block, estimated cost $2,895. All on concrete foundation with Medina, Borea or other approved curbing.

EDWARDSVILLE, ILL.—The Board of Local Improvement has awarded contracts for paving as follows: West Vandalia St. to P. P. Gaynord, $8,138, and Union St. to O. T. DUNLAP, at $11,738.

MOLINE, ILL.—The Board of Local Improvement on April 10 has awarded the contract for paving with asphalt a portion of 21st St. to the McCARTHY IMPROVEMENT CO., of Davenport, Iowa, at $8,886.

PEORIA, ILL.—The contract for paving with asphalt Seventh Ave., Hamilton St. and North Jefferson Ave. has been awarded to J. W. BUSHELL, of Peoria, at $52,397. Other bids receiver were: Peters Bros. Paving Co., $59,374; Central City Constr. Co., $62,443; J. F. Hill & Co., $64,820; H. P. Streicher & Co., $69,772. All bidders are of Peoria. Bids were received on April 11. George F. Simmons is Comr. of Pub. Wks.

The Terminal Ry. Co. has awarded the contract for paving South Washington St. to A. D. THOMPSON at $102,000.

NORTH CHICAGO, ILL.—See item under Sewers.

*PLATTEVILLE, WIS.—The contract for paving Main and Second Sts. with brick has been awarded to THOMAS E. WOOLEY, of La Crosse, Wis. Total bid, $13,967. P. D. Hendershot, Jr., is City Clerk.

JANESVILLE, WIS.—Bids will be received until 2 p. m., May 10 by the Street Assessment Committee, W. F. Carle, Chn., for paving with brick 7,175 sq. yds. on South Main St., with asphalt macadam, 7,630 sq. yds. on South Third St., and Washington St. with macadam, 3,602 sq. yds.; also paving South Second and Sinclair Sts.

TWO RIVERS, WIS.—WALTER BAHR, of Manitowac, Wis., has been awarded the contract for constructing a macadam pavement on 16th and Washington Sts., at a cost of $12,000.

MILWAUKEE, WIS.—The Park Board has awarded the contract for extending Lake Shore Drive 600 ft. to WILLIAM H. GILLON. Cost, $25,000.

SHEBOYGAN, WIS.—RASSMUSSEN & SON, of Oshkosh, Wis., have been awarded the contract for paving five blocks of Michigan Ave. with brick. The bid was as follows: Brick paving, per sq. yd., $1.91; new stone curb, 55 cts. per lin. ft.; resetting old curb, 15 cts. per lin. ft., amounting in all to about $28,000. Work will be commenced as soon as possible.

OSKALOOSA, IOWA.—Bids will be received until May 2 by C. E. Munroe, City Clerk, for brick paving about 1,600 sq. yds.

CENTERVILLE, IOWA.—Bids will be received until May 2 for 25,930 sq. yds. of brick pavement on 5-in concrete foundation and cement filler, 20,910 lin. ft. combined curb and gutter. Hall & Adams are City Engrs., Centerville.

PERRY, IOWA.—Contracts for paving have been awarded to WILLIAM HARRABIN, of Iowa City, as follows: Contract 1, 20,600 sq. yds. Bitulithic pavement, $2.08½; 9,500 ft. combined curb and gutter, 69 cts., and 5,000 cu. yds. grading, 40 cts., and for Contract 2, 33,700 sq. yds. creosoted block, $2.25; 18,000 ft. curb, 6 × 20 ins., 43 cts., and 11,455 cu. yds. grading, 40 cts. Charles Wilson is City Engr. Bids were received on April 15.

CLARINDA, IOWA.—THOMAS McLAUGHLIN & SON, of Topeka, Kan., has secured contract for 13,500 sq. yds. of concrete paving on streets, $1.30 per sq. yd.; 7,000 sq. yds. of concrete pavement in alleys, $1.34, and 5,000 lin. ft. concrete curb, 35 cts. Bids were received on April 12. C. W. Stuart is City Clerk.

MOUNT PLEASANT, IOWA.—THE BURLINGTON CONSTRUCTION CO., of Burlington, Iowa, has secured a contract, at $115,-000, for paving in Mount Pleasant.

MINNEAPOLIS, MINN.—Bids will be received until May 2 by Hugh R. Scott, County Audr., for Contracts Nos. 10, 11, 12 and 13. The work comprises about 4,300 ft. resurfacing and graveling Road No. 10, repairing Superior Boulevard, graveling 4,000 ft. of Road 28, and 1,200 ft. on Nesbit Hill.

DULUTH, MINN.—The Board of Public Works on April 18 awarded the contract for the grading and graveling of Sixth St., from First Ave. west to 14th Ave., East, to the PASTORET-LAWRENCE CO., at about $50,-000.

BOZEMAN, MONT.—The contract for constructing cement sidewalks, curbs, gutters and crosswalks has been awarded to STEVE BIRCH, of Fargo, N. Dak., at $30,000.

DILLON, MONT.—Bids are asked until 8 p. m., May 4, by the City Council for constructing walks, crossings, etc., in Dillon. B. F. White is Mayor; George R. Metlen is City Engr.

ST. LOUIS, MO.—Bids are asked until noon, May 13, by the Board of Local Improvements, for improving various roads in the city of St. Louis. W. B. Dryden is Secy.

BETHANY, MO.—Bids will be received until May 25, at the office of J. B. McClure, City Clerk, for constructing five blocks vitrified block pavement, curbing, etc.

GALVESTON, TEX.—Bids are asked until 2 p. m., May 2, by John M. Murch, County Audr., for grading and ditching on county road, from Algoa to Brazoria County Line, Galveston County.

OLYMPIA, WASH.—Bids will be received May 10 by the Highway Board at Olympia for grading, draining, macadamizing and graveling State Aid Road No. 70, Pierce County; grading and draining State Road No. 4, Lincoln County, and grading, bridging and graveling State Road No. 15, Cowlitz County. H. L. Bowlby is Secy.

BLAINE, WASH.—Bids will be received until May 16 for paving Washington St., about six blocks, with brick, asphalt, creosoted wood block, granitoid or bituminous pavement, material to be decided upon when bids are opened. Total cost, including sewer, $50,000. H. W. Troutman, of Bellingham, is Engr.; J. W. C. Merritt is City Engr.

BERKELEY, CAL.—A contract has been let, it is stated, to the ESTERLY CONSTRUCTION CO., M. S. FOSS and P. SCHMOOR by the Mason-McDuffie Co., for 500,-000 ft. of cement sidewalk to be laid in Northbrae. The price to be paid is approximately $50,000. The work is expected to be finished within 90 days.

OAKLAND, CAL.—Bids are asked until 11 a. m., May 4, by the Board of Public Works for improving the crossings on various streets. Walter F. Fawcett is Secy.

WESTMOUNT, QUE.—Bids are asked by A. D. Shibley, City Clerk, until noon, April 30, for various paving and sewer supplies.

TORONTO, ONT.—Contracts for asphalt paving for the season were awarded on April 21, amounting to over $38,000, have been as follows: The GODSON CONTRACTING CO., $11,650; the CONSTRUCTING & PAVING CO., $10,000. The GODSON CONTRACTING CO. secured the contract for vitrified block pavements, amounting to $76,775. The WARREN BITUMINOUS PAVING CO. were awarded contract for bitulithic pavements amounting to $11,000, and the contract for asphalt blocks was let to the BARBER ASPHALT PAVING CO., at $43,914.

MANUFACTURING PLANTS.

PORTLAND, ME.—The Portland Creamery Co. will build a plant on the north side of Portland St., and on the westerly side of the tracks of the Maine Central R. R. The main building will be 100 ft. in length and 50 ft. in width and three stories in height. It will be built of reinforced concrete. An artesian well will be connected with the new creamery. It is expected that it will require about three months to complete the building ready for occupancy. In addition to the main building there will be numerous outhouses to include buildings for the storage of ice and for stables.

LOCKPORT, N. Y.—The Simonds Mfg. Co., steel makers and manufacturers of saws and knives, announces an addition to its plant. The company will occupy a tract of 65 acres. L. A. Kimball is Mgr.

HARRISBURG, PA.—E. M. and J. M. Ensminger have taken out a building permit for a 1-story planing mill at 26th St., south of Derry St. The building will cost $24,000 and will be built in the shape of an "L."

PHILADELPHIA, PA.—JOHN W. EMERY, 1524 Sansom St., has a contract to build a 2-story factory, 225 × 200 ft., at the northwest corner of 21st and Clearfield Sts., for the Keystone Lubricating Co. The cost will be $40,000.

FAIRMOUNT, W. VA.—The Willetts Co., Tenth and Bradford Sts., Pittsburg, Pa., contemplates erecting a 2-story, 200 × 100-ft. brick and concrete glass factory; also a storage and power-house.

CINCINNATI, OHIO.—Building permits have been issued to A. E. Muth for the National Biscuit Co., for the erection of a 4-story brick, steel and timber addition to the present baking plant on Richmond St., west of Central Ave. Cost, $22,000.

GRAND RAPIDS, MICH.—Osgood & Osgood, Archs., Widdicomb Bldg., Grand Rapids, Mich., have let the general contract for the 1-story building, 235 × 133 ft., for the Grand Rapids Hardware Co., 34 Pearl St., to CHARLES HOERTZ & CO., Porter Bldg.

Robinson & Campeau, Archs., Houseman Block, Grand Rapids, Mich., are preparing plans and specifications for a 5-story addition, to cost $25,000, to the present plant of the Globe Knitting Co., Commerce and Goodrich Sts. Brick and mill construction and composition roof will be used in construction.

DETROIT, MICH.—R. E. Rasen[illegible] Arch., 1302 Penebscot Bldg., Detroit, has commissioned to prepare plans and specifications for an automobile factory.

Baxter & O'Dell, Archs., 1042 [illegible] mond Bldg., Detroit, are preparing [illegible] and specifications for a 2-story and [illegible] ment hardware factory, 100 × 120 ft., [illegible] Wood-bridge and Bates Sts. Press [illegible] stock brick, Bedford cut stone, composi[illegible] roofing, structural iron, concrete floors [illegible] electric fixtures will be used in constr[illegible].

The Trio Mfg. Co., S. W. Sorens[illegible] ecy., 1266 Bellevue Ave., Detroit, are let[illegible] con-tracts through Holden & Murray, 40[illegible] Moffat Bldg., for a second story addition [illegible] the present plant manufacturing auto[illegible] parts. Construction is to be of stock bri[illegible]-ford cut stone, with composition roo[illegible] truc-tural iron and electric fixtures will [illegible] used in construction.

George D. Mason, Arch., 80 Grise[illegible] St., Detroit, have let the general cont[illegible] to A. A. ALBRECHT & CO., Penobsco[illegible] dg., for the seventh and eighth story a[illegible]tion, 296 × 120 ft., to the present ware[illegible] of D. M. Ferry & Co., 84 Monroe Ave.

Baxter & O'Dell, Archs., Hammond [illegible]dg., Detroit, have let the following contra[illegible] for the Brisco Mfg. Co.'s factory, 83 [illegible] ft. John A. Boyle, Gen. Mgr., 1443 Woo[illegible]ard Ave.: Structural iron work to RUSSEL WHEEL & FOUNDRY CO., Joseph Campeau and M. C. R. R.; masonry, to H. CAREW, 210 Joseph Campeau; carpentry, to [illegible]ET-LOFF BROS., 831 Field Ave.; composition roofing, to J. D. CANDLER, 177 High St. East.

Grant Bros., 742-744 Woodward Ave., Detroit, have let the general contract for their proposed foundry building, 154 × 60 ft., to GEORGE & CO., 527 Beaubien St.

Rogers & McFarlane, Archs., Penobscot Building, Detroit, have let the following contracts for remodeling the 4-story building at 100 Woodward Ave., for D. M. Newbro and E. E. Gallogly, 100 Woodward Ave.: Masonry, to F. H. GODDARD, 910 Ford Bldg.; carpentry, to R. T. TEAKLE, 660 Grand River Ave.; composition roofing, to PUDRITH & CANDLER, 74-76 Brush St.; painting, to JAMES ROACH & CO., 283 Woodward Ave.

NORTH CHICAGO, ILL.—Bids are asked until noon, May 11, by the Chief of Bureau of Navigation, Navy Dept., Washington, D. C., for laundry machinery and driers at the naval training stations, Great Lakes, North Chicago, Ill.

MILWAUKEE, WIS.—The DAHLMAN CONSTRUCTION CO., Majestic Bldg., has been awarded the contract for erecting a reinforced concrete machinery building on the State Fair Grounds. The building will cost $21,750.

HOUSTON, TEX.—The National Biscuit Co. has let the contract for the erection of a 5-story factory building here to JAMES STEWART CONSTRUCTION CO., of Houston. The building will cost about $190,000. It will be built of hollow tile, steel reinforced construction.

FREDERICK, OKLA.—The Frederick Knitting Mill has awarded a contract to P. F. TARWATER, of Frederick, for the erection of a 2-story, 50 × 150-ft. building, which will be equipped with hosiery knitters. This company was organized last month with $100,000 capital stock by J. W. Blackwelder, of Hickory, N. C.

PHOENIX, ARIZ.—It is stated that Armour & Co., Chicago, Ill., will build a large cold storage plant in Phoenix, to cost $60,-000.

LEWISTON, IDAHO.—The contract for the construction of the Lewiston-Clarkston Cannery has been awarded to BOOTH & SHEEHY, at $3,451.

MISCELLANEOUS CONTRACTS.

(* *denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

BROKEN STONE.—New York, N. Y.—*See* item under Streets and Roads.

DITCH.—Marion, Ind.—Bids will be received by the County Drainage Commissioners, Marion, until May 7 for construction of the Lugar and Duckwall Ditch.

DITCH.—Armour, S. Dak.—Bids will be received by P. Eernisse, County Audr., until May 6 for constructing Lincoln Ditch No. 1. Engineer's estimate, $6,500.

STEEL CULVERTS.—Lisbon, N. Dak.—Bids will be received by I. E. Arnston, County Audr., until May 9 for corrugated steel culverts for the season of 1910.

*MANEUVER BOAT.—Cincinnati, Ohio.—Bids are asked by Lieut. Col. J. G. Warren, Corps of Engrs., U. S. A., until 2 p. m., May 18, for constructing hull of one maneuver boat.

ROAD OIL.—New York, N. Y.—Bids will be received by the Department of Parks until 3 p. m., May 5, for furnishing and delivering 50,000 gals. of dust preventive or road oil.

LIGHTHOUSE.—Punta Gorda, Cal.—W. M. WICKERHAM, of San Francisco, has been awarded the Government contract to build a lighthouse and fog signal station at Punta Gorda, at $33,285.

DREDGING.—Wilmington, Del.—Bids will be received until noon, May 24, by Maj. R. R. Raymond, Corps Engrs., U. S. A., for dredging Mispillion and Appoquinimink Rivers. Noted on March 24.

CANAL.—Ottawa, Ont.—Bids will be received by the Department of Railways and Canals until 4 p. m., May 5, for the construction of Section No. 4, Ontario-Rice Lake Division of the Trent Canal.

WRECK REMOVAL.—Plymouth, Mass.—Bids will be received by Lieut.-Col. Edw. Burr, Corps Engrs., U. S. A., Boston, until May 21 for removal of wreck of barge "City of Montreal" in Plymouth Harbor, Mass.

LEVEE.—Fort Worth, Tex.—The State Attorney General has approved the $250,000 bond issue recently made by Forth Worth Improvement District No. 1, for the purpose of building levees to reclaim about 6,000 acres of land. R. G. Johnson is City Comr.

DITCHES.—Redwood Falls, Minn.—Bids will be received until 10 a. m., May 10, by L. P. Larson, Audr., Redwood County, at Redwood Falls, for constructing tile and dredge ditches in Redwood and Brown Counties. Estimated cost, $29,949. D. L. Bingham is Engr. Redwood Falls.

*DRAINAGE.—Colville, Wash.—Bids will be received until 2 p. m., May 16, by the Commissioners of Drainage District No. 2, Stevens County, for constructing a ditch or canal about eleven miles long in this district from Station O to Station No. 579. W. M. Manning, Colville, is Engr.

RAILINGS, ETC.—New York, N. Y.—Bids will be received by the Department of Docks and Ferries until noon, May 4 (Contract No. 1213), for furnishing all the labor and materials required for preparing for and constructing railings, gates and stairway in the ferry house at St. George, Staten Island, Boro. of Richmond.

RAILROAD TRACK.—Charleston, S. C.—Bids will be received until 11 a. m., April 30, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for a railroad track along the south side of dry dock No. 1, navy yard, Charleston, S. C. Specifications are on file at office of Engineering News, New York.

FIRE ALARM TELEGRAPH SYSTEM.—New York, N. Y.—Bids will be received until 10.30 a. m., May 6, by the Fire Department, New York City, for furnishing all the labor and materials required for establishing, building and equipping an underground fire alarm telegraph system in the Borough of Brooklyn.

GRAND-STAND.—Hamline, Minn.—Plans are being drawn by Reed & Stem, Archs., St. Paul, Minn. (and 5 East 42d St., New York), for alterations to the grand-stand at the state fair grounds for exhibition purposes. C. N. Cosgrove is Secy. of the Minnesota State Agricultural Society, St. Paul, Minn. Estimated cost, $35,000.

RIVER IMPROVEMENTS. — Cleveland, Ohio.—The City Council has adopted the Gahn resolution calling upon the city engineer to prepare plans and estimates for the elimination of Collision and Irishtown bends in the lower Cuyahoga River, an improvement that will mean an expenditure of from $1,500,000 to $1,750,000.

CULVERTS.—Cincinnati, Ohio.—Bids will be received until noon, May 20, by the Commissioners of Hamilton County, under Specifications No. 43, for the building of culverts and changing course of creek on West Fork road, between schoolhouse and Rehkamp's in Millcreek Township. Fred. Drelhs, Clk. Bd. Comrs.

REPAIRING FERRY STRUCTURES.—New York, N. Y.—Bids will be received by the Department of Docks and Ferries until noon, May 2 (Contract No. 1221), for furnishing all the labor and materials required for reconstructing and repairing the ferry structures at the foot of Roosevelt St., East River, Boro. of Manhattan.

DRAIN.—Clarion, Iowa.—Bids will be received until 2 p. m., May 2, by E. M. Callender, County Audr., Clarion, for constructing ditch No. 43, near Rowan. Bids will be considered for both clay and cement tile. Work is to begin on or before June 1, 1910, and be completed on or before Jan. 1, 1911. It is divided into 19 sections.

ROAD OIL.—Pittsburg, Pa.—Bids were received on April 25 by R. J. Cunningham, County Comptroller, for furnishing about 250,000 gals. liquid asphalt road oil, to be delivered at any railroad point or points in Allegheny County. S. D. Foster, County Road Engr., Pittsburg. Contract was awarded to the ATLANTIC REFINING CO., of Philadelphia, at 3 cts. per gal.

ROAD OIL, STONE, ETC.—New York, N. Y.—Bids will be received until 11 a. m., May 5, by Lawrence Gresser, Pres. Boro. Queens, for furnishing and delivering 200,000 gals. of asphalt road oil, to be delivered as directed by the President of the Boro. of Queens within the said borough. Also for furnishing and delivering 8,500 cu. yds. of broken quarry stone and screenings in Boro. of Queens.

DREDGING.—Cleveland, Ohio.—The GREAT LAKES DREDGE & DOCK CO., Chicago, has been awarded contract by the Board of Public Service for dredging the Cuyahoga River. The bid on sectional, which extends from the mouth of the river to the winding basin, amounts to 17.9 cts. per cu. yd. The price on Section 2, which is the portion beyond the winding basin, is 20.8 cts. per cu. yd. The city has $99,000 to spend on this work.

DRAINAGE.—Sioux Falls, S. Dak.—Bids will be received until 2 p. m., May 5, by Thos. M'Kinnon, Chn. Bd. County Comrs., at Sioux Falls, for constructing Drainage Ditch No. 4, involving about 21,000 cu. yds. excavation, situated in Grand Meadow Township, about five miles southwest of Colton; also for constructing Drainage Ditch No. 5. The work begins near the town of Humboldt and will be chiefly a tile ditch. Henry Howe is County Audr.

DREDGING.—Ottawa, Ont.—Bids will be received until 5 p. m., May 4, by the Department of Public Works, Ottawa, for dredging required at the following places in the Provinces of Nova Scotia and New Brunswick: Arisaig, Big Lorraine, Cribbin's Point, Digby, L'Archeveque, Lunenburg, Mahone, Petit de Gras, Yarmouth, West Dublin, Buctouche, Caraquet, Campbellton, Dalhousie, Oromocto, Pointe du Chene, St. Andrews.

*DITCHES.—St. Paul, Minn.—Bids will be received until 2 p. m., May 18, by Samuel G. Iverson, State Audr., for the construction of the following: State Ditch No. 83, located in Marshall County, Minn.; contains 720,000 cu. yds. State Ditch No. 90, located in Kittson County, Minn.; contains 480,000 cu. yds. State Ditch No. 91, located in Roseau County, Minn.; contains 1,339,524 cu. yds. State Ditch No. 92, located in Koochiching County, Minn.; contains 234,476 cu. yds. These ditches can be constructed with a floating dredge.

*DREDGING EQUIPMENT.—Philadelphia, Pa.—Bids will be received by the Department of Wharves, Docks and Ferries until noon, June 17, for furnishing plans and specifications and constructing one combination dredge (scoop and clam shell type), one tug boat not less than 80 ft. over all, one tug boat not less than 65 ft. over all, one or two bottom dump scows, of not less than 500 cu. yds. capacity each, one or three bottom dump scows, of not less than 250 cu. yds. capacity each, one deck scow of sufficient size to carry 150 tons of coal and 15 pontoons. Jos. F. Hasskarl is Acting Div. Dept.

PIER.—Long Branch, N. J.—Contract has been awarded by the Long Branch Pier & Land Co. for the erection of the 850-ft. pier in front of the Mansion House property. The successful bidder for the superstructure was JESSE A. HOWLAND, of Seabright, N. J., whose bid was $158,000. JOHN B. WHITE, of Long Branch, was given the contract for erecting the buildings on the Ocean Park grounds, which the company has leased for a period of 20 years.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

	Noted in issue of
4-30* Power plant, etc., Fort Terry, N. Y.	3-21
4-30 Condenser, etc., Boston, Mass.	3-31
5- 3 Boilers, etc., Prince Rupert, B. C.	4- 7
5- 3 Elec. light plant, New Concord, Ohio	4-21
5- 4 Franchise, Santa Ana, Cal.	4-21
5- 4 Power and gate houses, Brooklyn, N. Y.	4-28
5- 5 Lighting fixtures, Long Island City, N. Y.	4-28
5- 7 Condensers, etc., Philadelphia, Pa.	4-14
5-10 Elec. light system, Fort Logan, H. Roots, Ark.	4-28
5-11*Equipment, Baltimore, Md.	4-21
5-11 Distributing system, Ft. Greble, R. I.	4-21
5-12 Steam piping, etc., Cincinnati, Ohio	4-28
5-13 Elec. wiring, Ft. Terry, N. Y.	4-21
5-14 Switchboard, etc., Columbus, Ohio	4-28
5-16 Conduit, etc., Winnipeg, Man.	4-28
5-21 Power plant, Washington, D. C.	4-21
5-23*Elec. light system, Fort Morgan, Ala.	4-28

Bridges.

4-29 Bridge, Glendon, Pa.	4-21
4-30 Bridges, Oklahoma City, Okla.	4-21
4-30 Bridges, Lewisburg, Pa.	4-28
4-30 Bridge work, Cleveland, Ohio.	4-28
4-30 Bridge, Fort Morgan, Colo.	4-28
5- 2 Bridges, Leavenworth, Kan.	4-28
5- 2 Bridge, May, Okla	4-28
5- 2 Bridge, South Bend, Wash.	4-28
5- 2 Arch or span, Sherman, Tex.	4-21
5- 2 Bridge, Monticello, Miss.	4-21
5- 2 Bridge work, York, Pa.	4-21
5- 2 Bridge, Edenton, Ohio.	4-14
5- 2 Bridges, Stroudsburg, Pa.	4-14
5- 3 Bridge, etc., Winnemucca, Nev.	4-14
5- 3 Bridge, Cohasset, Minn.	4- 7
5- 3 Bridge, New London, Wis.	4-21
5- 3 Superstructure, Pittsburg, Pa.	4-21
5- 3 Bridge, Wilmington, Del.	4-28
5- 3 Arch, Oakville, Ont.	4-28
5- 4*Bridge, Rve, N. Y.	4-28
5- 4 Bridges, Princeton, Ind.	4-21
5- 5 Bridges, Peru, Ind.	4-21
5- 6 Substructure, etc., Steubenville, O.	4-21
5- 6 Bridge, Elkins, W. Va.	4-14
5- 7 Bridge, Cedar Rapids, Iowa	4-28
5- 7 Bridge, Ellice, Man.	4-28
5-11 Bridge work, Cleveland, Ohio.	4-21
5-12 Bridges, Rockport, Ind.	4-28
5-14 Bridge work, Cleveland, Ohio.	4-28
5-14 Bridge, North Chicago, Ill.	4- 7
5-16*Bridge, Ypsilanti, Mich.	4-14
5-18 Bridge, Cameron, Tex.	4-28
5-25 Bridge work, Cleveland, Ohio.	4-28
6- 1 Bridge, Gretna, La.	3-24
6- 1 Substructure, Whiterocks, Utah.	3-10

Buildings.

4-30 Plumbing, Detroit, Mich.	4-21
4-30 School, Sandusky, Ohio	4-28
5- 2 Storehouse, Ft. Oglethorpe, Ga.	4-28
5- 2 Post-office, Lander, Wyo.	3-24
5- 2 Schools, New York	4-21
5- 3 City Hall, etc., Sullivan, Ind.	4-21
5- 3 Plans, Hartford, Conn.	4-21
5- 4 Quarters, Ft. Bliss, Tex.	4-14
5- 4 Post-office, Charleston, W. Va.	3-31
5- 4 Police station, New York	4-28
5- 5*Custom-house, Boston, Mass.	3-31
5- 6 Post-office, Cleveland, Tenn.	4- 7
5- 6*Quarters, etc., Ft. H. G. Wright, New York	4- 7
5- 6 Quarters, Ft. Caswell, N. C.	4-14
5- 7 Post-office, Newark, Ohio.	4- 7
5- 7 Storehouse, Bremerton, Wash.	3-24
5- 7 Quarters, Bremerton, Wash.	3-24
5- 9*Post-office, Austin, Minn.	3-31
5- 9 Cells, Carson City, Nev.	4-21
5- 9 Schools, Columbus, Ohio.	4-21
5- 9 Hospital, Ft. McKinley, Me.	4-28
5- 9 Schools, New York	4-28
5-10 Post-office, Great Falls, Mont.	4- 7
5-11*Vault, etc., Tacoma, Wash.	3-31
5-11 Barracks, Ft. Monroe, Va.	4-21
5-11 Laundry machinery, North Chicago, Ill	4-28
5-12*Quarters, Ft. Douglas, Utah.	4-28
5-12*Post-office, Appleton, Wis.	4- 7
5-13*Post-office, Ottumwa, Ia.	4- 7
5-13*Quarters, Ft. Terry, N. Y.	4-14
5-14 Post-office, Sewickley, Pa.	4-14
5-14 Storehouse, Vallejo, Cal.	4- 7
5-14 Sheds, etc., New York	4-28
5-15 Storehouse, etc., Ft. Terry, N. Y.	4-21
5-16 School, New Castle, Pa.	4-28
5-16*Post-office, Shreveport, La.	4- 7
5-16 Plumbing, Belleville, Ill.	4-14
5-16 School, Waterbury, Conn	4-28
5-18*Post-office, Centralia, Ill.	4-21
5-19*Post-office, Catlettsburg, Ky.	4-14
5-20*Sheds, New Orleans, La.	4-28
5-20 Quarters, Galveston, Tex.	4-28
5-21 Rebuilding, Portsmouth, N. H.	4-14
5-21 Building, Portsmouth, N. H.	4-21
5-23 Post-office, Delaware, Ohio.	4-28
5-25 Post-office, Griffin, Ga.	4-28
5-26 Post-office, North Yakima, Wash.	4-21
5-31*Post-office, Keene, N. H.	4-28
6- 7 Post-office, Fremont, Neb.	4-28
7- 1 Plans, New Orleans, La.	3-17

Water-Works.

5- 1 Irrigation work, Calgary, Alta.	3-24
5- 1 Canal, Willow, Cal	4-28
5- 2 Water pipe, Arlington, Mass.	4-28
5- 2 Water-works extension, Mont Alto, Pa	4-28
5- 2 Reservoir, Hancock, Mich	4-28
5- 2*Pipe, Yonkers, N. Y.	4-28
5- 2 Water main, Grand Forks, N. Dak.	4-21
5- 3 Water-works, Colby, Kan.	4-21
5- 3*Conduit, Meridian, Miss.	4-21
5- 3 Water-works material, Breaux Bridge, La.	4- 7
5- 3 Boilers, etc., Prince Rupert, B. C.	4- 7
5- 3 Water pipe, Cherokee, Iowa.	4-28
5- 3 Air-compressor, Winnipeg, Man.	4-28
5- 4 Excavation, etc., New York	4-28
5- 4*C.-I. pipe, Mountain View, Okla.	4-28
5- 5*Water system, Johnson City, Tenn.	4- 7
5-10 Water distrib. system, Fort Sill, Okla	4-28
5-11 Mains, New York	4-28
5-17*W.-wks. bonds, Stigler, Okla.	4-28
5-18 W.-wks. extension, Gadson, Ala.	4-28
5-18 Water pipe line, Fort Riley, Kan.	4-28
5-18*Boilers, Perth Amboy, N. J.	4-28
5-23*Boilers, Fort DuPont, Del.	4-28
5-25*Dam, etc., Creede, Colo.	4-21
6- 1 Reservoir, North East, Md.	4-14
6-14*Pump station, Detroit, Mich.	4-21

Sewers.

4-28 Sewer drains, Cincinnati, Ohio.	4-28
4-29 Sewer, Harrisburg, Pa.	4-28
4-29 Sewage disposal, Comstock, N. Y.	4-28
4-29 Sewers, Louisville, Ky.	4-21
5- 1 Sewers, Danville, Ill.	3-24
5- 2 Sewer system, Hawarden, Iowa.	4- 7
5- 2 Sewer, Wichita, Kan.	4-21
5- 2 Sewer, Atlanta, Ga.	4-21
5- 2 Sewer, Kirksville, Mo.	4-28
5- 2 Sewer, Yonkers, N. Y.	4-28
5- 3 Sewers, Memphis, Tenn.	4-28
5- 3 Sewage disposal works, Belmar, N. J	4-28
5- 3 Drains, Waterbury, Conn.	4-28
5- 3 Sewers, Brooklyn, N. Y.	4-28
5- 3 Sewer, South Bend, Ind.	4-21
5- 3 Sewers, Jackson, Tenn.	4-21
5- 3 Sewer system, Manhattan, Kan.	3-17
5- 3*Sewers, Wenatchee, Wash.	4-14
5- 4*Interceptor, Baltimore, Md.	4-21
5- 4 Sewer, Elyria, Ohio	4-28
5- 5 Sewer, Albert Lea, Minn.	4-28
5- 5 Sewer, New York	4-28
5- 5 Sewers, Long Island City, N. Y.	4-28
5- 5 Sewer system, Hays City, Kan.	4-21
5- 6 Sewer, Youngstown, Ohio.	4-28
5- 9 Sewer system, Mandon, N. Dak.	4-28
5-11 Grading at sewage works, North Chicago, Ill.	4-28
5-16 Sewer, Brainerd, Minn.	4-21
5-16*Sewers, Westfield, N. J.	4-21
5-17 Sewers, Belzoni, Miss.	4-14
5-17*Sewer, St. Louis, Mo.	4-28
5-21*Sewer, St. Louis, Mo.	4-28
5-24 Sewer, Cleveland Heights, Ohio.	4-28
5-31*Sewer, St. Louis, Mo.	4-28

Streets and Roads.

4-29 Road, Cincinnati, Ohio.	4- 7
4-29*Paving, Norfolk, Va.	4-14
4-29 Road, Cincinnati, Ohio.	4-14
4-29 Road, Concord, N. H.	4-14
4-29*Sidewalks, etc., Monroe, N. Y.	4-21
4-30 Paving, Port Arthur, Ont.	4-21
4-30 Paving, New Haven, Conn.	4-21
4-30 Paving supplies, Westmount, Que.	4-28
5- 2 Street impvt., Albany, N. Y.	4-28
5- 2 Street flushing machines, Albany, N. Y	4-28
5- 2 Grading, etc., Scranton, Pa.	4-28
5- 2 Paving, Mt. Carmel, Pa.	4-28
5- 2 Sidewalks, Jacksonville, Fla.	4-28
5- 2 Paving, etc., Canton, Ohio.	4-28
5- 2 Paving, Oskaloosa, Ia.	4-28
5- 2 Paving, Centerville, Ia.	4-28
5- 2 Roads, Minneapolis, Minn.	4-28
5- 2 Road, Galveston, Tex.	4-28
5- 2 Paving, Sherman, Tex.	4-21
5- 2 Paving, Olean, N. Y.	4-21
5- 2 Gravel road, Greencastle, Ind.	4-14
5- 2 Gravel road, Danville, Ind.	4-14
5- 2 Paving, Weston, Ohio.	4- 7
5- 2 Paving, etc., Havre, Mont.	4- 7
5- 3*Paving, etc., Wenatchee, Wash.	4-14
5- 3 Macadam, Wabash, Ind.	4-14
5- 3 Gravel road, Kokomo, Ind.	4-14
5- 3 Gravel road, Vincennes, Ind.	4-14
5- 3 Macadam, Sikeston, Mo.	4-14
5- 3*Paving, Clinton, Okla.	4-14
5- 3 Paving, Wenatchee, Wash.	4-21
5- 3 Paving, Clinton, Okla.	4-21
5- 3 Roads, Indiana	4-21
5- 3 Macadam, etc., Dunkirk, N. Y.	4-21
5- 3 Paving, etc., Baltimore, Md.	4-28
5- 3 Paving, Columbus, Ohio.	4-28
5- 4 Paving, Buffalo, N. Y.	4-28
5- 4 Paving, New York	4-28
5- 4 Road impvt., Mt. Savage, Md.	4-28
5- 4 Road impvt., Elyria, Ohio.	4-28
5- 4 Paving, Akron, Ohio	4-28
5- 4 Road repair, Cleveland, Ohio.	4-28
5- 4 Walks, etc., Dilion, Mont.	4-28
5- 4 Crossings, Oakland, Cal.	4-28
5- 4 Road, Indiana	4-21
5- 5 Gravel road, Greencastle, Ind.	4-14
5- 5 Paving, New York	4-28
5- 5 Macadam, Martinsville, Va.	4-28
5- 6 Road, Albany, N. Y.	4-28
5- 6 Road, Indiana	4-21
5- 6 Road work, Concord, N. H.	4-21
5- 9 Macadam, Steubenville, Ohio.	4-14
5-10 Stone, New York	4-28
5-10 Road, Columbus, Ohio	4-28
5-10 Paving, Janesville, Wis.	4-28
5-10 Grading, etc., Olympia, Wash.	4-28
5-10 Road impvt., Columbus, Ohio.	4-21
5-11 Paving, New York	4-28
5-11 Road, Columbus, Ohio	4-28
5-12 Macadam, Newton, N. J.	4-28
5-12*Paving, Washington, D. C.	4-28
5-12 Roads, Indiana	4-21
5-12 Road gravel, New York	4-28
5-13 Street impvt., St. Louis, Mo.	4-28
5-15 Roads, Plymouth, Ind.	4-28
5-16 Paving, Blaine, Wash.	4-28
5-16*Street impvt., Westfield, N. J.	4-21
5-17 Paving, Paterson, N. J.	4-28
5-23 Roads, Indiana	4-21
5-23 Stone road, Jeffersonville, Ind.	4-14
5-25 Paving, Bethany, Mo.	4-28
5-27 Sidewalks, Grand Rapids, Mich.	4-28

Miscellaneous.

4-29*Revetment, Grand Haven, Mich.	3-31
4-29*Crematory, Atlanta, Ga.	3-24
4-29 Levee, Cincinnati, Ohio.	4-14
4-30 See Algoma Central & Hudson Bay Ry.	4-14
4-30 Ditch, Olivia, Minn.	12-22
4-30 R. R. track, Charleston, S. C.	4-28
5- 2 R. R. supplies, Panama	4-28
5- 2 Drain, Clarion, Iowa	4-28
5- 2 Repairing ferry structures, New York, N. Y	4-28
5- 3*Blue-printing machine, West Point, N. Y.	4-21
5- 4 Ditch, Conde, S. Dak.	3-24
5- 4 Dredging, Ottawa, Ont.	4-28
5- 4 Railings, etc., New York, N. Y.	4-28
5- 5 Drainage, Sioux City, S. Dak.	4-28
5- 5 Road oil, New York, N. Y.	4-28
5- 5 Canal, Ottawa, Ont	4-28
5- 5 Broken stone, New York, N. Y.	4-28
5- 5 Watering trucks (garbage), New York	4-28
5- 6 Ditch, Armour, S. Dak.	4-28
5- 6 Fire alarm telegraph system, New York, N. Y.	4-28
5- 6*Gymnastic apparatus, West Point, N. Y.	4-21
5- 7 Ditch, Marion, Ind	4-28
5- 9 Steel culverts, Lisbon, N. Dak.	4-28
5-10 Ditches, Angleton, Tex.	4-28
5-10 Sale of island, Ottawa, Ont.	4-28
5-11*Power boat, Wilmington, Del.	4-14
5-11 Supplies, Panama	4-28
5-12 Paving, New York	4-28
5-15 Watering carts, etc. (Garbage), Boston, Mass.	3-24
5-16*Diversion channel, East St. Louis, Ill.	4-14
5-16 Supplies, Dover, N. J.	4-21
5-16*Drainage, Colville, Wash.	4-28
5-18*Ditches, St. Paul, Minn.	4-28
5-18*Maneuver boat, Cincinnati, Ohio.	4-28
5-18*Incinerator (Garbage), Aberdeen, Wash.	4-28
5-18*Telephone lines, Porto Rico.	4-28
5-20 Culverts, Cincinnati, Ohio.	4-28
5-21 Wreck removal, Plymouth, Mass.	4-28
5-24 Dredging, Wilmington, Del.	4-28
5-24 Barge canal, Albany, N. Y.	4-28
5-31*Garbage plant (Garbage), Vancouver, B. C.	4-21
5-31 Destructor plant (garbage), Vancouver, B. C.	4-28
6-15*Lock gates, Panama	4-21
6-17*Dredging equipment, Philadelphia, Pa	4-28
6-27*Ladder dredge, Panama	4-28

Examinations.

4-30 Asst. Electrical Engr., Albany, N. Y.	3-31
4-30 Asst. Engineer, Albany, N. Y.	3-31
4-30 Asst. Inspector of Gas, Albany, N. Y.	3-31
4-30 Examiner in Drawing, Albany, N. Y.	3-31
4-30 Junior Bridge Draftsman, Albany, N. Y.	3-31
4-30 Leveler, Albany, N. Y.	3-31
4-30 Supt. of Construction, Albany, N. Y.	3-31
4-30 Water Analyst, Albany, N. Y.	3-31
4-30 Bridge designer, Albany, N. Y.	3-31
4-30 Bridge draftsman, Albany, N. Y.	3-31
4-30 Architectural draftsman, Albany, N. Y.	3-31
5- 2 Chemist, New York	3-24
5- 4 Teacher of Agriculture, Carlisle, Pa.	3-31
5-18 Library asst., Wash., D. C.	3-24

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

4-30 Condenser, Boston, Mass.	(S.) 3-31
4-30 R. R. track, Charleston, S. C.	(S.) 4-28
5- 1 Irrigation work, Calgary, Alta.	(P. & S.) 3-24
5- 7 Condensers, etc., Philadelphia, Pa.	(S.) 4-14
5- 7 Storehouse, Bremerton, Wash.	(S.) 3-24
5- 7 Quarters, Bremerton, Wash.	(S.) 3-24
5-14 Storehouse, Vallejo, Cal.	(S.) 4- 7
5-14 Bridge, North Chicago, Ill.	(S.) 4- 7
5-16*Diversion channel, East St. Louis, Ill.	(S.) 4-28
5-21 Rebuilding, Portsmouth, N. H.	(S.) 4-14
5-21 Power plant, Washington, D. C.	(S.) 4-21

DAM.—Pendleton, Ore.—A contract calling for the completion of the projected dam across the Umatilla River at Coe has been let, and a bond given for the completion of the work by Oct. 1. The total cost is to be $110,000 and construction work is to be started within 30 days. The dam is to be constructed by the ESCHBACH-BRUCE CO., of Seattle, Wash., for the Furnish-Coe Project and the floodwaters of the Umatilla River are to be conserved by it to supplement the water now secured by means of the Furnish Canal from the regular flow of the river.

DIVERSION CHANNEL.—East St. Louis, Ill.—Bids will be received until noon, May 16, by the Board of Trustees, East Side Levee and Sanitary Dist., Sexton Bldg., for construction of a diversion channel for Cahokia Creek and necessary levees and embankments and other auxiliary or incidental improvements, in accordance with Ordinance No. 5 of The East Side Levee and Sanitary District. Details are given in advertisement in issue of April 14. Complete specifications, drawing, advertisement, form of proposal, and contract and bond are on file at the office of Engineering News, New York.

BARGE CANAL.—Albany, N. Y.—Bids are asked by F. C. Stevens, Supt. Public Works, until noon, May 24, for Barge Canal Contracts Nos. 63 and 73. Contract No. 63 provides for the improvement of the Erie Canal from the west line of Wayne County to the east end of Contract No. 23, at Kings Bend near Rochester, a distance of 12.22 miles; the engineer's estimate of cost is $2,184,083. Contract No. 73 calls for the dredging of a channel in the Hudson River and performing work incidental thereto between Northumberland and Stillwater, a distance of about 15 miles. This is the same contract which was recently advertised and on which no bids were received. The engineer's estimate is $778,900, the estimate for excavation having been increased from 43 to 53 cts. per cu. yd. Frank M. Williams is State Engr.

SUBWAYS.—New York, N. Y.—Notice is given that a public hearing upon the proposed terms and conditions of the contracts for the construction of a Rapid Transit railroad will be held at the rooms of the Public Service Commission, First District, 154 Nassau St., New York City, on May 16, at 2.30 p. m. Copies of the drafts of the contracts may be obtained at the office of the Commission on and after April 30 for $1 each.

Notice is also given that a public hearing upon the proposed terms and conditions of the contract for the construction, equipment, maintenance and operation of a proposed rapid transit railroad will be held at the rooms of the Commission, 154 Nassau St., New York City, on May 9, at 2.30 p. m. Copies of the drafts of the contract may be obtained at the office of the Commission on and after April 23, for $1 each.

SALE OF ISLAND.—Ottawa, Ont.—Bids will be received by the Department of Indian Affairs, J. D. M'Lean, Secy., until noon, May 10, for purchase of Giant's Tomb Island, situated in the Georgian Bay north of Penetanguishene. The island will be sold subject to a Timber License covering the maple, beech, basswood, birch and hemlock timber of nine inches and upwards at the stump, renewable yearly for seven years, from April 30, 1910, which license will be held by the Department of Indian Affairs for the benefit of the Indians. This island contains an area of about 1,400 acres, exclusive of 51.10 acres, which have been sold to the Department of Marine and Fisheries for lighthouse purposes, and which will not be included in the sale of the Island. It is beautifully situated in the Georgian Bay, not far from Penetanguishene or Midland, and would be well adapted for summer resort purposes.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 176.

TEAMS WANTED.

80,000 yards machine work on Santa Fe double track at Williamsfield, Illinois. Good material, all down-hill haul. Must have two (20 or 25-team outfits) or one (40 or 50-team outfit) to handle quickly. Address S. DOLMAN & SON, Williamsfield, Illinois.

BRIDGE MACHINERY.

THE SANITARY DISTRICT OF CHICAGO.

TO CONTRACTORS.

Sealed Proposals Addressed to the Board of Trustees of the Sanitary District of Chicago and Endorsed.

Proposals for Machinery, Lock Gates, etc., for Sheridan Road Bridge and Wilmette Pumping Station will be received by the Clerk of the said Sanitary District at the offices of the said District, on the fifteenth floor of the American Trust Building, Chicago, Illinois, until 12 M., Standard Time, on Wednesday, May 11, 1910, and will be publicly opened by the Board of Trustees at a meeting to be held on that day, or the first meeting thereafter.

The work for which said tenders are invited consist of the furnishing, fabrication and erection of machinery, lock gates and collateral work for Sheridan Road Bridge and Wilmette Pumping Station, for the North Shore Channel of the Sanitary District of Chicago, in the village of Wilmette, County of Cook, State of Illinois.

The said work is to be performed in accordance with plans, specifications and contract furnished by the Sanitary District of Chicago, which plans, specifications and contract may be obtained upon application at the said office of the said District.

All bids must be upon blank forms of proposal furnished by the Sanitary District, and shall be made in accordance with and to conform with all the terms and conditions stated therein.

The said Board of Trustees reserves the right to reject any and all bids.

THE SANITARY DISTRICT OF CHICAGO,
By Robert R. McCormick,
President of its Board of Trustees.
Attest: I. J. Bryan,
Chicago, April 28, 1910.

STONE ROAD.

Elizabeth, N. J.

Sealed proposals will be received by the County Road Committee of the Board of Chosen Freeholders of the County of Union, at the Court House, Elizabeth, New Jersey, at 2.30 P.M., on Wednesday, the 18th day of May, 1910, for the construction of a stone road of either Asphalt Macadam, Amiesite, Warrenite, Filbertine or Headley Road Co.'s Binders, on Raritan Road and Lake Avenue, extending from Terrill Road to Palisade Avenue in the Townships of Fanwood and Clark.

The length of said road is 2.465 miles and the width of stonework sixteen (16) feet.

Estimate of quantities (main items):
Excavation, 32,374 cubic yards.
Macadam, 23,000 square yards.

Plans, profiles and specifications can be examined at the office of the State Commissioner of Public Roads, State House, Trenton, N. J., and at the office of F. J. Hubbard, County Engineer, 201 Park Avenue, Plainfield, New Jersey.

Each bid must be accompanied by a certified check in the sum of $1,000.00 as a guarantee of good faith on the part of bidders.

The said Board of Chosen Freeholders or its Committee reserves the right to refuse or reject any or all bids, as they may deem best for the interests of the County.

HENRY KROUSE, Chairman,
County Road Committee.
F. J. HUBBARD,
County Engineer,
201 Park Avenue, Plainfield, N. J.

FORT MONROE, VA., April 26th, 1910.—Sealed proposals, in triplicate, will be received until 10:00 A. M., May 27th, 1910, for the construction, including plumbing, heating, electric wiring and fixtures, of nine double sets of non-commissioned officers' quarters, at Fort Monroe, Va. Deposit of certified check for $25 required as guaranty return of plans and specifications. Bidders on proposals must state name of manufacturers supplying them material. Information on application. Plans and specifications may also be seen at Office Chief Quartermaster, Department of the East, Governor's Island, N. Y. The United States reserves the right to accept or reject any or all proposals or any part thereof. ERNEST R. TILTON, Captain & Q. M., U. S. A., Constg. Q. M.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 21, 1910.—Sealed proposals will be received in this office until 3 o'clock P. M. on the 31st day of May, 1910, and then opened for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Keene, N. H., in accordance with drawings and specification copies of which may be obtained from the Custodian of site at Keene, N. H., or at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 25, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 6th day of June, 1910, and then opened, for two additional steam freight elevators at the U. S. Appraisers' Warehouse, New York, N. Y., in accordance with drawing No. E-232 and the specification, copies of which may be had at this office or at the office of the Superintendent and Chief Engineer of Public Buildings, New York City, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

DREDGING EQUIPMENT.

DEPARTMENT OF WHARVES, DOCKS AND FERRIES.
Philadelphia, Pa.

Sealed proposals, endorsed "Bids for Furnishing Plans and Specifications and Constructing One (1) Combination Dredge (Scoop and Clam Shell Type), One (1) Tug Boat not less than Eighty Feet (80') Over All, One Tug Boat not less than Sixty-five Feet (65') Over All, One (1) or Two (2) Bottom Dump Scows, of not less than Five hundred (500) cubic yards capacity each, One (1) or Three (3) Bottom Dump Scows, of not less than Two hundred and fifty (250) cubic yards capacity each, One (1) Deck Scow of sufficient size to carry one hundred and fifty (150) tons of coal, and Fifteen (15) Pontoons," will be received up until twelve (12) o'clock noon, Friday, June 17, 1910, at the office of the Acting Director of the Department of Wharves, Docks and Ferries, No. 555 Bourse Building, and then publicly opened.

Specifications and Blank forms upon which Bids must be made can be obtained upon application at the above office. No Bid will be considered unless accompanied by a Certificate from the City Solicitor of the City of Philadelphia, that the provisions of an Ordinance requiring Proposal Bonds on all Bids exceeding in amount Five Hundred Dollars ($500), approved May 25, 1860, have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interest of the City.

JOSEPH F. HASSKARL,
Acting Director.

SHEDS.

New Orleans, La., April 20th, 1910.

Sealed proposals will be received by the Board of Commissioners of the Port of New Orleans, at their office Nos. 601-602 Hibernia Bank & Trust Co. Building, until Friday, May 20th, 1910, at 1.30 o'clock P. M., for the fabrication and erection of the structural steel and cast iron for any or all of the following sheds:

EIGHTH-HARMONY STREET SHED No. 2.
SIXTH STREET SHED.
THIRD STREET SHED.
SORAPARU STREET SHED.
BRANCH M. KING SHED.

Deposit: One Thousand Dollars (1,000.00) Cash or certified check.

Payment: Eighty per cent. (80%) monthly.

Bond: In full amount of contract.

Plans, specifications, proposal forms, etc., prepared by J. F. Coleman & Co., Engineers, are on file at the office of the Engineer, A. C. Bell, No. 606 Hibernia Bank & Trust Co. Building, New Orleans, La., by whom full sets will be furnished on deposit of Twenty-five ($25.00) Dollars, the said deposit will be returned upon the safe return of said set in good order.

The right is reserved to reject any or all bids.

HUGH McCLOSKEY,
President.

BRIDGES.

CITY OF JAMESTOWN, NEW YORK.

Sealed proposals will be received by the Board of Estimate and Review until 12 o'clock, Saturday, May 14th, for the construction of two reinforced concrete bridges.

One a reinforced concrete girder bridge at Winsor Street and the other a double arch bridge at Fairmount Avenue.

Bids will be received only in accordance with plans and specifications and on proposal sheets, which can be seen at the office of the City Engineer and at the office of Richard Irwin, Engineer, 507 House Building, Pittsburg, Pennsylvania.

A certified check made payable to City Treasurer in the amount of 5 per cent. of the improvement must accompany each proposal.

The Board reserves the right to reject any or all bids.

W. I. BLYSTONE,
C. G. JONES,
J. A. LEE,
Board of Estimate and Review, City of Jamestown, New York.
Dated April 26, 1910.

STONE ROAD.

Elizabeth, N. J.

Sealed proposals will be received by the County Road Committee of the Board of Chosen Freeholders of the County of Union, at the Court House, Elizabeth, New Jersey, at 2.30 P.M., on Wednesday, the 18th day of May, 1910, for the construction of a stone road of either Asphalt Macadam, Amiesite, Warrenite, Filbertine or Headley Road Co.'s Binders, on Madison Hill Road and Palisade Avenue, extending from Lake Avenue to Westfield Avenue, in the Townships of Clark and the City of Rahway.

The length of said road is 2.75 miles and the width of stonework sixteen (16) feet.

Estimate of quantities (main items):
Excavation, 27,910 cubic yards.
Macadam, 22,880 square yards.

Plans, profiles and specifications can be examined at the office of the State Commissioner of Public Roads, State House, Trenton, N. J., and at the office of F. J. Hubbard, County Engineer, 201 Park Avenue, Plainfield, New Jersey.

Each bid must be accompanied by a certified check in the sum of $1,000.00 as a guarantee of good faith on the part of bidders.

The said Board of Chosen Freeholders or its Committee reserves the right to refuse or reject any or all bids, as they may deem best for the interests of the County.

HENRY KROUSE, Chairman,
County Road Committee.
F. J. HUBBARD,
County Engineer,
201 Park Avenue, Plainfield, N. J.

FORT DUPONT, DELAWARE CITY, DEL., April 21, 1910.—Sealed proposals, in triplicate, will be received here until 11.00 a. m., May 23, 1910, for furnishing and installing two 75 horse-power water tube boilers, one feed pump, one feed water heater, new steam and exhaust mains, and making certain removals and changes in pumphouse at Fort DuPont, Del. Information furnished upon application. Plans and specifications can be seen here and also in the Office of the Chief Quartermaster, Dept. of the East, Governor's Island, N. Y. A certified check in sum of $5.00 required on plans and specifications loaned, to insure their safe return. U. S. reserves right to accept or reject any or all bids or any part thereof. Envelopes containing bids should be endorsed "Proposals for Boilers, etc., and be addressed to "CONSTRUCTING QUARTERMASTER, Fort DuPont, Delaware City, Del."

FORT DUPONT, DELAWARE CITY, DEL., April 25, 1910.—Sealed proposals, in triplicate, will be received here until 11.00 a. m., May 16, 1910, for furnishing and installing metal frame window screens, door and transom screens in five new buildings at Fort DuPont, Del. Information furnished upon application. Specifications can be seen here or will be mailed upon receipt of certified check in sum of $5.00 as a deposit for their safe return. U. S. reserves right to accept or reject any or all bids or any part thereof. Envelopes containing bids should be indorsed "Proposals for Screens" and addressed to CONSTRUCTING QUARTERMASTER, Fort DuPont, Delaware City, Del.

U S. ENGINEER OFFICE, Cincinnati, Ohio, April 28, 1910.—Sealed proposals for constructing hull of one maneuver boat will be received here until 2 p. m. May 18, 1910, and then publicly opened. Information on application. J. G. WARREN, Lt. Col., Engrs.

Situations Open

WANTED—Several draftsmen for detailing and checking structural steel for theatres. HINKLE IRON CO., 534 West 56th St., New York City. 17-1t

WANTED—Several first-class structural detailers and checkers. Apply by letter, stating experience, age and salary expected. Address "A. B.," Room 1618 Pennsylvania Building, Philadelphia, Pa. 17-3t

FOR SALE

FOR SALE.

LOCOMOTIVE CRANES

2—10-ton, 2—15-ton, 4-wheel standard gauge, "Browning," with 38 or 50 foot boom with or without drums for 2-line bucket. Guaranteed first class order.

J. C. HOUSTON,
50 Church Street, New York 17-4t

FOR SALE.

A Trap Rock Quarry

in successful operation, with orders ahead. Inquire "X. A. 17," care Engineering News, New York. 17-1t